http://www.microsoft.com/magazine/summer/

Microsoft MAGAZINE

Vol. 5 Issue 3

Summer 1998
$3.95

The Resource for Microsoft Preferred Customers

IT'S SHOW TIME!

Windows 98 Premiere

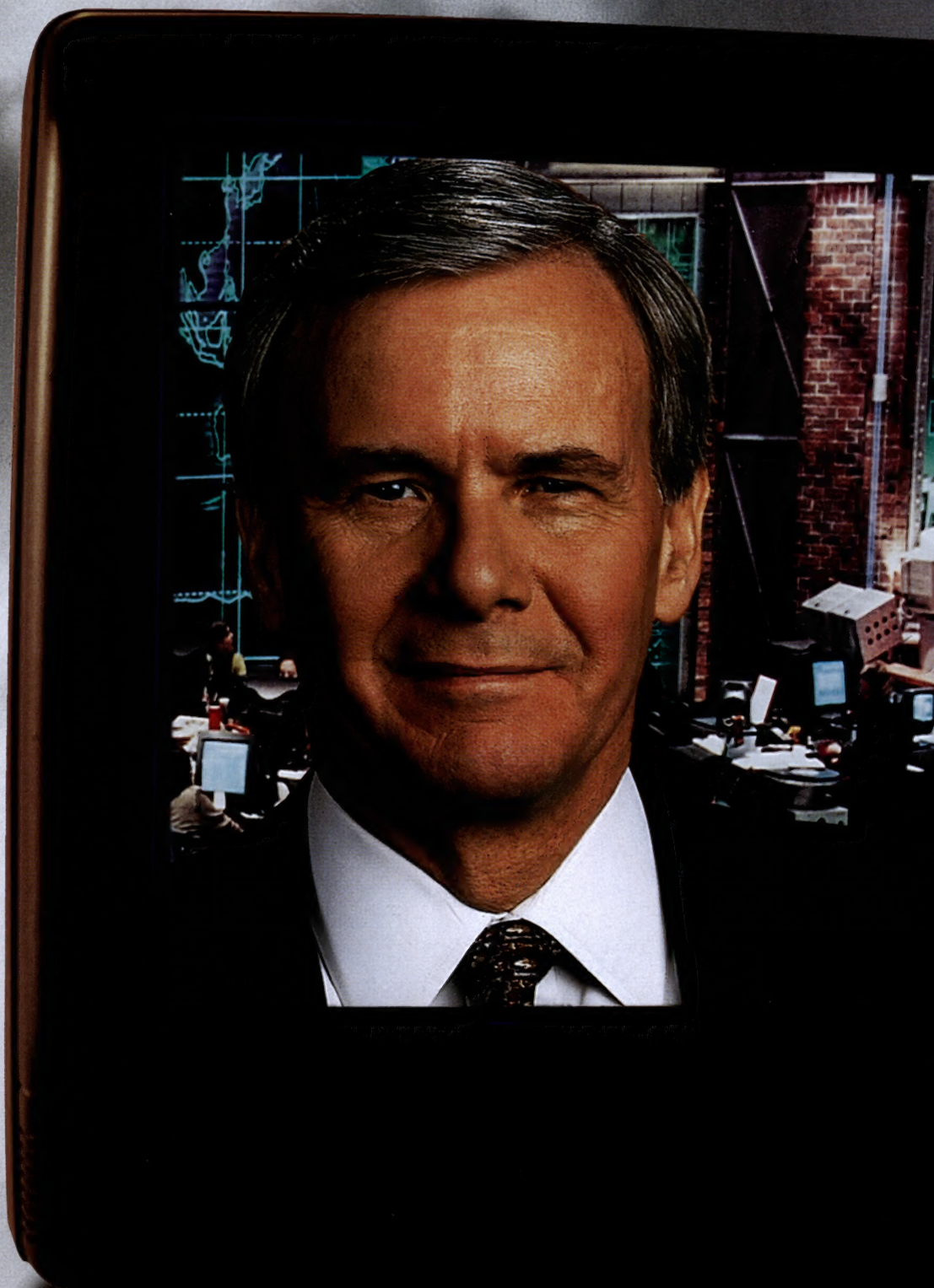
Cool games for summer

The future of Office

READER TIP CONTEST WINNERS

Bulk Rate
U.S. Postage Paid
Lancaster, PA
Permit No. 617

The New Leader in Ca



Being in the right place at the right time.

The people of NBC News are always right there, with breaking news coverage 24 hours a day.

ole and Internet News

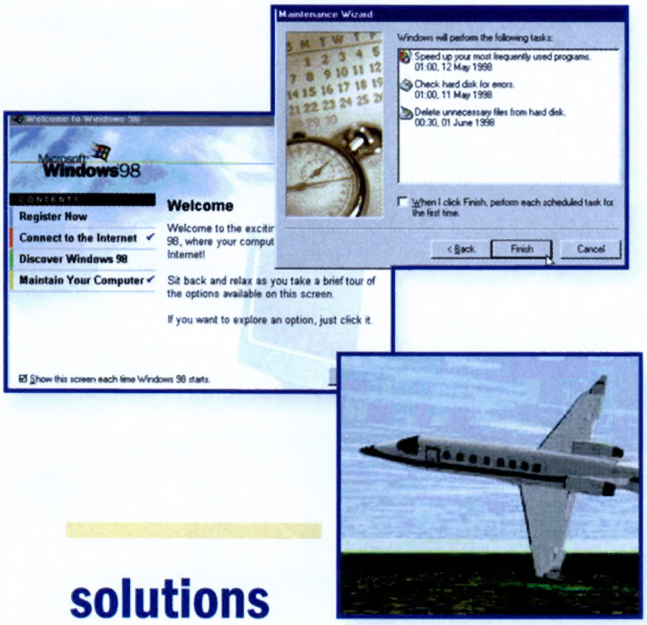
MSNBC

www.msnbc.com

Log on or call your cable/satellite provider.

inside

SUMMER 1998 VOLUME 5 ISSUE 3


Maintenance Wizard
Windows will perform the following tasks:
Speed up your most frequently used programs.
01:00, 12 May 1998
Check hard disk for errors.
01:00, 11 May 1998
Delete unnecessary files from hard disk.
00:30, 01 June 1998
When I click Finish, perform each scheduled task for the first time.
< Back
Finish
Cancel
Microsoft Windows98
Welcome
Register Now
Connect to the Internet
Discover Windows 98
Maintain Your Computer
Sit back and relax as you take a brief tour of the options available on this screen.
If you want to explore an option, just click it.
Show this screen each time Windows 98 starts.

features

cover story

20 **Windows 98**
The Curtain Rises by Dermot Hogan
The stage is set for Microsoft Windows 98, the newest version of the company's popular operating system. Enjoy this front row view of all the new and exciting features that are coming to a desktop near you.

30 **Reader Top Tips**
We asked, and you answered! Here are the winning entries and runners-up in *Microsoft Magazine*'s Reader Tip Contest.

solutions

35 **Step-by-Step** by Lisa N. Jennoghe
You say you always wanted to be a Webmaster? Here's how you can use Microsoft FrontPage 98 to create your own Web site.

42 **Tell Me How** edited by Dale Washburn
Inside answers to your questions about Microsoft products.

45 **Tips and Tricks** edited by Dale Washburn
Our pick of hot tips, tricks, and solutions from Microsoft Technical Support.

review

14 **Shoot 'em Up, Run 'em Over** by David Shower

Our advance look at two hot games from Microsoft: Outwars and Monster Truck Madness 2. Great fun whether you want to blast space aliens or splatter mud all over the track.

interview

18 **What Will the Future Bring?**
Microsoft vice president Jon DeVaan discusses the future of Microsoft Office and related desktop applications.

departments

5 **Letter from the Editor**

6 **Letters to the Editor**

8 **Quick Clicks**
You can be a productivity dynamo! Manage your personal information better with Outlook 98. Teach yourself tricks for using Windows 98 with new titles from Microsoft Press. And find out how to make the most out of your trips to microsoft.com with the new Visitor Guide.

48 **Marketplace**

50 **URL Index**

What's the *B U Z Z* on Microsoft Office? Get the inside word about the next version, code-named "Office 9" at press time, on page 18.

Microsoft Magazine, ISSN 1085-1232, is published quarterly for $9.97 per year for registered Microsoft customers and $14.97 per year for non-registered Microsoft customers by TPD Publishing Inc, 1300 Dexter Avenue North, Suite 500, Seattle, WA 98109. POSTMASTER: Send address changes to MICROSOFT MAGAZINE, PO Box 3243, Northbrook, IL 60065-3243.

letter from the editor

Microsoft MAGAZINE

Editor-in-Chief/Publisher Jon Ganio
Editor Clark Heideger

Editorial Director Barry Owen
Associate Editor Brenda Pittsley
Technical Editors John MacIntyre, Dale Washburn
Copy Chief Richard Johnson
Copy Editor Kathleen Doll
Assistant Editor Brian Gill

Account Executive Margot Liggett
Production Director Deborah Sanders
Production Manager John Lewis
Production Coordinator Liv Pugsley
Creative Lead Saroyan Humphrey
Design Assistant Dan Goods
Circulation Director John Tootill
Circulation Manager Wendy Jones

Advertising Sales
Advertising Manager Katie Logan
(206) 284-1800

Please send submissions or queries regarding this magazine by electronic mail to msmag@microsoft.com or by fax to (425) 93 MS FAX (936-7329). Or write to
Microsoft Magazine
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399

For more information about Microsoft products, call the Microsoft Sales Information Center at (800) 426-9400. Or call (800) 727-3351 and request faxes on Microsoft products, price lists, events, and question-and-answer documents.

TPD

TPD Publishing Inc.
Simon Kelly, **President**
Karla Spormann, **Vice President,** Group Publisher
Celia Canfield, **Vice President,** Business Development
David Townsend, **Vice President,** Technology

Microsoft Magazine is published quarterly by TPD Publishing Inc. on behalf of Microsoft Corporation. Please note that Microsoft reserves the right to edit submissions. Prices quoted and product availability are good in the 50 United States of America only. Retailer prices may vary. Microsoft Corporation reserves the right to modify or cancel *Microsoft Magazine* and the Preferred Customer circulation at any time. Upon any cancellation, paid subscription holders will receive a prorated refund for undistributed issues remaining in the affected subscription series.

Microsoft's support services are subject to Microsoft's then-current prices, terms and conditions, which are subject to change without notice.

©1998 Microsoft Corporation. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, for any purpose without the express written permission of Microsoft. For recorded information about reprinting text, call (425) 936-5270.

Microsoft, Active Channel, Active Desktop, Direct3D, DirectDraw, DirectInput, DirectShow, DirectSound, DirectX, Encarta, FrontPage, IntelliMouse, the Microsoft Internet Explorer logo, Microsoft Press, Monster Truck Madness, MS-DOS, MSN, the Office logo, Outlook, Outwars, Picture It! PowerPoint, SideWinder, Starts Here, Windows, the Windows logo, and the Windows Start logo are either registered trademarks or trademarks of Microsoft Corporation in the U.S. and/or other countries.

Quick Course is a registered trademark of Online Press, Inc. Hallmark Connections is a trademark of Hallmark Licensing, Inc. WebTV is either a registered trademark or trademark of WebTV Networks, Inc. in the U.S. and/or other coutries.

Other product and company names mentioned herein may be the trademarks of their respective owners.

Companies, names, and/or data used in screens are fictitious, unless otherwise noted.

0698 Part No. 098-70058

You've heard about it and read about it, and now it's here. After a tremendous research and development effort and an exacting production cycle, Microsoft® Windows® 98 is days away from being available to the world. Windows 98, the successor to Windows 95, is an evolutionary operating system that is designed to help you work better and play faster.

Two of the most frequently asked questions are: "What are the differences between Windows 95 and Windows 98?" and "Why should I upgrade?" Well, from the sneak preview in the fall 1997 issue to the developer download article in spring, we at *Microsoft Magazine* have done our best to keep you—our Preferred Customers—in the know as Windows 98 evolved. With each article we translated the features of Windows 98 into solid benefits that help answer these questions and demonstrate how the latest version of Windows can assist you with your computing needs. We continue our coverage on page 20. And since we cannot possibly tell you everything about this operating system in one article, look for more in-depth news of Windows 98 in upcoming issues of *Microsoft Magazine*.

You'll find more than Windows 98 in this issue. With all the talk about the evolution of software, we thought it was time to take a peek at the future of another great Microsoft product group—Office. Because so many of us use Office products such as Word and Excel every day, the future of these applications is a window on the future of personal computing as a whole. The Office team is already at work on the next version, code-named "Office 9" at press time. On page 18 we interview Microsoft vice president Jon DeVaan to get the inside scoop on what's in store for this great suite of applications.

I'm also pleased to present the winners of our Reader Tip Contest. Back in fall 1997 we asked readers to enter their tips for getting the most out of Microsoft products. The response to our contest was phenomenal, and I want to thank all who participated. There were so many fantastic tips it was hard to select the best. However, after careful deliberation our editors have made their selections. See the winners and some of our favorite runners-up in the article on page 30. Congratulations to the four winners!

Finally, I would like to thank you all once again for being Microsoft Preferred Customers, status you've earned by continuously registering your Microsoft products. Our mission is to continue meeting your needs, so be sure to e-mail us at msmag@microsoft.com and let us know what you want. Also, remember to keep registering your products to maintain your Preferred Customer status and enjoy the benefits that come with it—including *Microsoft Magazine*.

Sincerely,

Jon Ganio
Editor-in-Chief

Visit the Microsoft Personal Computing site at http://www.microsoft.com/magazine/summer/

letters to the editor

Where's Outlook 98?

When the spring 1998 issue of *Microsoft Magazine* arrived I was extremely interested in the Outlook™ 98 item that appeared alongside the Office 97 review. Even more interesting was the news that registered users of Outlook 97 are eligible to upgrade to Outlook 98 at no charge.

I connected to the Outlook Web site, but found only the page for Outlook 98, Beta 2. Is there a way registered users of Outlook 97 can obtain a free upgrade to the full version of Outlook 98 when it is released?

Laurence E. LeVan

We received a flood of letters from puzzled readers who found only the beta version when they visited the Office Update site looking for the final release. It is Microsoft Magazine's *mission to bring readers the latest developments in the world of software and the Internet. To do this, we often compose articles in advance of actual releases. (As you read this, we are already well into work on the fall issue.) In this case, there was a slight delay in the final release of Outlook 98, which occurred after we had gone to press. We apologize for any inconvenience this caused.*

Registered users of Office 97, Outlook 97, or Microsoft Exchange Server may still download the Outlook 98 upgrade at no cost (connect time charges may apply). Visit http://www.microsoft.com/magazine/outlook/ for details.

I need inside information

I am a computer teacher at a technical college. My vocation demands keeping up with new developments in the Microsoft line of products. While reviewing a back issue of *Microsoft Magazine*, I read about previewing products as an end user. Please tell me how I can preview upcoming Microsoft products.

Phyllis Fuller

The preview program you refer to has been discontinued, but there are many ways you can stay abreast of upcoming Microsoft products, services, and events. At the microsoft.com Personal Information Center you can sign up for specialty e-mail newsletters that are full of insider information. For example, Microsoft: This Week *is a weekly newsletter covering new products, contests, advice, tips, and free downloads. Other newsletters cover seminars, small business, and games.*

find it on the Web

HOT LINKS

Outlook 98	http://www.microsoft.com/magazine/outlook/
Personal Information Center	http://www.microsoft.com/magazine/newsletters/
Microsoft Personal Computing	http://www.microsoft.com/magazine/summer/
Product Catalog	http://www.microsoft.com/magazine/catalog/

Subscribe to as many as you like at http://www.microsoft.com/magazine/newsletters/.

Having trouble accessing microsoft.com?

Your magazine indicates that I can access microsoft.com and visit sites related to topics in the magazine. Sometimes when I visit the site and click on a link, I get a message that says the page can't be found. I really want the information; what do I do?

Jan Miksovsky

We receive a number of letters like this after every issue. If you've ever faced this quandary, here's a solution: Microsoft has an e-mail alias specifically for reporting site problems. If you send mail to webmaster@microsoft.com, your mail will be read that day. Be certain to include the word Editorial *in the subject line so the microsoft.com editors will know you're reporting a site problem.*

The staff monitoring the webmaster alias gets hundreds of e-mail questions each day, most of which aren't related to site problems. So first you'll receive an automatic response that tells you how to find answers to product problems or MSN™ billing questions, for example. But if you're reporting a site problem, you'll probably also receive a personal message thanking you for the report; the note might also include an estimated time when the problem will be resolved.

how to contact us

online

View the Microsoft Personal Computing site at http://www.microsoft.com/magazine/summer/.

editorial services

Please send submissions or queries by

E-MAIL msmag@microsoft.com
FAX (425) 936-7329
MAIL Microsoft Magazine
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399

subscription services

For address changes, subscription information, and back issues, please contact us by

E-MAIL subscriptions@msmag.tpdinc.com
MAIL Microsoft Magazine
PO Box 3243
Northbrook, IL 60065-3243
PHONE (847) 559-7300

For changes of address please include old and new address information or a label from a recent issue. A one-year subscription (4 issues) rate for registered Microsoft customers is $9.97 and for non-registered Microsoft customers is $14.97. Back issues may be purchased (subject to availability) for $5 per copy (includes shipping and handling).

advertising services

Send advertising inquiries to TPD Publishing Inc. by

MAIL TPD Publishing Inc.
1300 Dexter Ave. N, Suite 500
Seattle, WA 98109
PHONE (206) 284-1800
FAX (206) 285-1900

products

For more information about Microsoft products, go to http://www.microsoft.com/magazine/catalog/.

letters policy

Microsoft reserves the right to publish edited versions of letters submitted along with the name, city, and state of residence of the writer. All letters submitted must state your full name and address. We will not publish your full address. Views expressed in letters to the editor are the opinions of the writers and do not necessarily reflect the opinions of the magazine editors.

It is* Microsoft Magazine*'s goal to bring readers the latest and most useful information on the ever-changing world of software and the Internet. Although the editors make every effort to ensure the accuracy of product information and URLs published in the magazine, changes may occur after we have gone to press. We apologize for any inconvenience this may cause.

If Windows 98 makes your TV

jealous

ATI has to take a lot of the blame

Now TV knows how radio felt.

POWERED BY RAGE PRO TURBO GRAPHICS

- Fully enable Windows 98 including Web TV for Windows with the multi-award winning ATI All-In-Wonder Pro.
- **Get it all in one card** – advanced TV Tuner functionality, incredible 3D performance, DVD-quality video playback, multi-monitor support, video capture, video output and much more.
- What are you waiting for? **Buy an All-In-Wonder Pro 8MB right now and get Windows 98 free.***
- Available in PCI and full AGP 2X versions.

Get up to $98* back from ATI

Designed for Microsoft Windows 98

PC MAGAZINE EDITORS' CHOICE December 2, 1997 ALL-IN-WONDER PRO

CG CHOICE

PC GAMER EDITORS' CHOICE

MVP 1998 PCComputing WINNER Innovation of the Year ALL-IN-WONDER PRO

©Copyright 1998, ATI Technologies Inc. ATI, All-In-Wonder and RAGE PRO are trademarks and/or registered trademarks of ATI Technologies Inc. All other company and/or product names are trademarks and/or registered trademarks of their respective manufacturers. Features, performance, and specifications may vary by operating environment and are subject to change without notice. Products may not be exactly as shown. *With the purchase of an ATI All-In-Wonder Pro 8MB and Microsoft Windows 98, ATI will rebate up to $98. Proof of purchase required. Some restrictions apply. See your retailer or www.atitech.com for full details on this rebate offer. Offer subject to change or cancellation at any time without notice by ATI Technologies Inc.

Now You See It.™

www.atitech.com/msm

ATI®

editor's choice

Flag Outlook 98 for Follow-Up

Outlook 98 takes a good program and makes it great. This integrated suite of tools helps you manage your personal, group, and Internet information using one high-powered application.

You can upgrade to Outlook 98 at http://www.microsoft.com/magazine/outlook/ and start taking advantage of this refined e-mail client that integrates your messages, calendar, and information management.

Here are a few benefits:

Plan your day. Why start your day switching from window to window in a confusing hunt for the day's priorities? Outlook Today is a custom summary of critical e-mail, tasks, and meetings.

Manage your e-mail. With Outlook 98 you can prioritize incoming mail with AutoPreview, which displays the first three lines of all messages. Or you can set the Rules Wizard to manage e-mail based on your preferences; there's even a special junk mail feature to identify and deal with dreaded "spam."

Flag for follow-up. Never forget to reply to an important message again. Flag messages from a drop-down menu of notices, including return call, review, and our favorite, "no response necessary." A built-in calendar allows you to set to-do reminders on action items.

Here's a reminder now: Effective communication is a key to success. And Outlook 98 will help you connect, communicate, and collaborate more effectively than ever.

Illustration: Brian Raszka

For a limited time, get a free Outlook 98 CD when you purchase select titles from Microsoft Press®. Go to http://www.microsoft.com/magazine/mspress/ for details.

A free copy of Outlook 98 is available to registered users of Outlook 97, Office 97, or Exchange Server at http://www.microsoft.com/magazine/outlook/ (connect time charges may apply). If you tried and failed to find Outlook 98 after reading about it in our spring issue, see Letters to the Editor on page 6.

Mighty Mi

TECH-HEADS refer to it as a "pointing device," but most of us call it a mouse. And perhaps therein lies the problem, because this computing workhorse often doesn't get the respect it deserves.

The fact is, the Microsoft mouse—sorry, *pointing device*—has come a long way in the '90s. If you're not using one to enhance your computer's functionality, you may be missing out. Take a look at the innovative scrolling device, the IntelliMouse® Wheel. Resting between the right and left buttons, the IntelliMouse Wheel is used to zoom and scroll around documents and Web sites—no more laborious clicking or dragging of scroll bars. Want to see for yourself? Go to http://www.microsoft.com/magazine/wheeldemo/ and try out the demo.

Now the IntelliMouse Wheel is improved, thanks to a new driver. The IntelliPoint 2.2 driver turns the IntelliMouse Wheel into a universal scroller; the original IntelliMouse Wheel was compatible primarily with Office 97 and select applications, but now it can scroll almost everywhere. Registered users of Microsoft pointing devices with wheels can upgrade to IntelliPoint 2.2 at no charge at http://www.microsoft.com/magazine/intellipoint/ (connect

icks

find it on the Web

HOT LINKS

Outlook 98	http://www.microsoft.com/magazine/outlook/
IntelliMouse Wheel demo	http://www.microsoft.com/magazine/wheeldemo/
Microsoft IntelliPoint	http://www.microsoft.com/magazine/intellipoint/
Office Viewers and Converters	http://www.microsoft.com/magazine/officeviewers/
microsoft.com	http://www.microsoft.com/magazine/microsoft/
Microsoft Press	http://www.microsoft.com/magazine/mspress/
Microsoft licensed merchandise	http://www.microsoft.com/magazine/logostore/

productivity

Open Sesame!

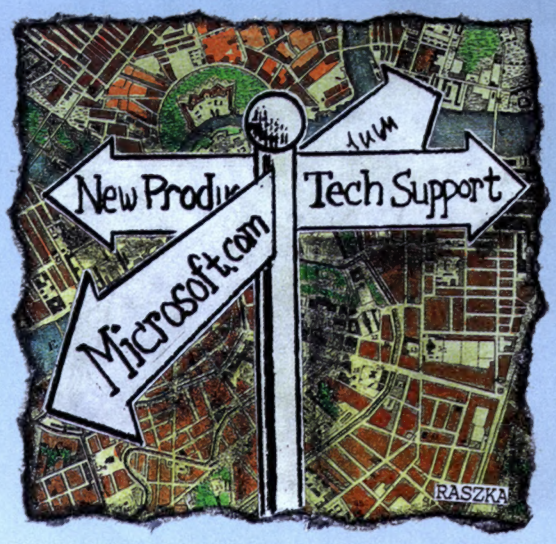
Don't you hate it when someone sends you a document by e-mail and you *can't open it!*

It seems like we've been doing it forever, but sharing word processing, spreadsheet, and database files via internal networks and e-mail is a fairly new development. It has developed so quickly, in fact, that the ability to transfer files has outstripped the ability to open them easily on the other end. Attempting to open files created in software programs or operating systems different from your own can be a lesson in frustration.

One solution is to chose Save As when saving documents. You can use Save As Type to select the appropriate platform and software version for other users. But since you can't always plan ahead that way, you need a fallback method: Microsoft Converters and Viewers.

Converters allow you to open files created by people running different versions of the Office programs. With *Viewers*, people who don't have Office can see your work; just send them a viewer with your files. Viewers and converters, including cross-platform tools for Microsoft Access, Word, Excel, and PowerPoint® can be downloaded at http://www.microsoft.com/magazine/officeviewers/.

Now if you're running Office 97 on Windows 95 with a 32-bit system, your friends and coworkers can view your documents on their Windows 3.1 16-bit system. What a relief!



microsoft.com

Lay of the Land

Trivia quiz: Name a place visited by more than 1 million people daily. Give up? The answer is microsoft.com, a site that gets roughly 126 million hits from 1 million visitors a day.

The microsoft.com Visitor Guide was created to familiarize visitors with the layout of this valuable Web site, which features more than 250,000 information-packed pages. In a few minutes, the Visitor Guide provides an overview of all that's available, plus instructions on how to make the most of it. You can read as little or as much as you like before jumping into microsoft.com. Go see for yourself at http://www.microsoft.com/magazine/microsoft/.

time charges may apply).

Two new products featuring the IntelliMouse Wheel have joined the Microsoft mouse family. The Microsoft Wheel Mouse is a sophisticated pointing device at a low price; its smaller size accommodates smaller hands, making it ideal for shared PC environments such as the home. The Microsoft IntelliMouse Pro is Microsoft's most comfortable mouse ever, featuring a redesigned shape and rubberized sides for maximum comfort. These two new products join the original IntelliMouse pointing device, the IntelliMouse Trackball, and the Mouse 2.0, giving Microsoft a line of five pointing devices. One of these workhorses is right for you.

Microsoft Wheel Mouse

INTRODUCING THE NEW 400MHZ MILLENNIA

THE PERFECT SYSTEM FOR MICROSOFT POWER USERS!

32X Variable CD-ROM drive
Or upgrade to
DVD-ROM drive**

Lots of monitor options including the 17" Micron 700 FGx, .26 dp monitor (16" display)

"Power users will love the new Micron Millennia"
- PC Magazine

Expandable Storage
100MB Iomega
Zip drive available

Awesome Sound!
64 voice PCI Wavetable stereo sound speakers available with powered subwoofer

Millennia XKU Dec 97 | Millennia XKU Mar 98 | Millennia XKU Sept 97 | Designed for Microsoft Windows 95

350MHz & 400MHz systems feature the new Intel BX chip set with fast 100MHz bus

Features new 350MHz or 400MHz Intel Pentium® II processors

Microsoft and Micron team up to bring you some of the world's most powerful software and systems. The new Micron™ Millennia® 400MHz system represents a quantum leap forward in high-end power and performance. Whether you're running Microsoft® Office or NT® Workstation, coding in Visual C++ or cruising on Internet Explorer, there's no system more ready to meet your needs. The Micron Millennia desktop line, long a favorite among industry critics, offers the latest in technology at factory direct pricing that leads the industry.

ORDER ONLINE AT www.micronpc.com OR CALL TOLL-FREE 888-215-6401

ASK ABOUT OUR WINDOWS 98 UPGRADE OFFER.

MICRON - RANKED #1 IN TOTAL CUSTOMER SATISFACTION BY THE READERS OF PC WEEK

Micron is so popular among the tech savvy set that the readers of *PC Week* just voted Micron #1 in overall customer satisfaction. Four out of five PC geeks (the fifth probably just builds their own) prefer Micron because they recognize Micron's engineering driven, award-winning product focus is unmatched in the PC industry. They also know that Micron systems are the most dependable. Micron uses the finest quality components that are backed up by our responsive and knowledgeable tech support and sales force – all at prices that you wouldn't expect to find from a top-tier $2 billion direct systems manufacturer.

CHECK OUT OUR NEW LOW PRICES ON HIGH PERFORMANCE MICRON™ MILLENNIA® DESKTOPS

Millennia 333	Millennia 350	Millennia 400
• 333MHz Intel Pentium II processor • 64MB SDRAM • 6.4GB Ultra ATA hard drive • 17" Micron 700FGx, .26dp monitor (16"display) • 82440LX chip set • 512KB internal cache, 2MB flash BIOS • 3.5" floppy drive • 32X EIDE variable speed CD-ROM drive • 128-bit AGP Diamond Viper V330 (nVidia), 4MB EDO SGRAM & MPEG • Integrated 32-voice wavetable 3D stereo sound • Advent AV009 stereo speakers • 56K x2 data/fax modem* • 104-key enhanced keyboard • Microsoft® IntelliMouse® • Microsoft Windows® 95 and Microsoft Plus! • Microsoft Office 97 Small Business Edition • 5-year/3-year Micron Power℠ limited warranty	• 350MHz Intel Pentium II processor • 64MB PC100 SDRAM • 6.4GB Ultra ATA hard drive • 17" Micron 700FGx, .26dp monitor (16"display) • 82440BX chip set • 512KB internal cache, 2MB flash BIOS • 3.5" floppy drive • 32X EIDE variable speed CD-ROM drive • 128-bit AGP Diamond Viper V330 (nVidia), 4MB EDO SGRAM & MPEG • Integrated 64-voice wavetable 3D stereo sound • Advent AV009 stereo speakers • 56K x2 data/fax modem* • 104-key enhanced keyboard • Microsoft IntelliMouse • Microsoft Windows 95 and Microsoft Plus! • Microsoft Office 97 Small Business Edition • 5-year/3-year Micron Power limited warranty	• 400MHz Intel Pentium II processor • 64MB PC100 SDRAM • 6.4GB Ultra ATA hard drive • 17" Micron 700FGx, .26dp monitor (16"display) • 82440BX chip set • 512KB internal cache, 2MB flash BIOS • 3.5" floppy drive • 32X EIDE variable speed CD-ROM drive • 128-bit AGP Diamond Viper V330 (nVidia), 4MB EDO SGRAM & MPEG • Integrated 64-voice wavetable 3D stereo sound • Advent AV009 stereo speakers • 56K x2 data/fax modem* • 104-key enhanced keyboard • Microsoft IntelliMouse • Microsoft Windows 95 and Microsoft Plus! • Microsoft Office 97 Small Business Edition • 5-year/3-year Micron Power limited warranty
$1,999 $70/mo Business Lease	**$2,099** $73/mo Business Lease	**$2,199** $77/mo Business Lease
• 8.4GB Ultra ATA hard drive • 100MB Iomega Zip drive	• 8.4GB Ultra ATA hard drive • 100MB Iomega Zip drive • DVD-ROM drive and PCI decoder card**	• 8.4GB Ultra ATA hard drive • 100MB Iomega Zip drive • DVD-ROM drive and PCI decoder card**
$2,147 $75/mo Business Lease	**$2,397** $84/mo Business Lease	**$2,497** $87/mo Business Lease

intel inside pentium® II PROCESSOR

TO ORDER CALL TOLL-FREE
888-215-6401
OR ONLINE AT
www.micronpc.com

MICRON ELECTRONICS™

Circle 111 on the Reader Response Card

©1998 Micron Electronics, Inc. All rights reserved. Micron Electronics is not responsible for omissions or errors in typography or photography. All purchases are subject to availability. Prices and specifications may be changed without notice; prices do not include shipping and handling and any applicable taxes. 30-day money-back policy does not include return freight and original shipping/handling charges, applies only to Micron brand products and begins from date of shipment. All sales are subject to Micron Electronics' current terms and conditions of sale. Amount of monthly payments for business leasing are based on 36-month lease, and amount of monthly payments for consumer leasing are based on 30-month lease. The Intel Inside Logo and Pentium are registered trademarks and MMX is a trademark of Intel Corporation. Microsoft, Windows, Windows NT and the Windows logo are registered trademarks of Microsoft Corporation. Product names of Micron products are trademarks or registered trademarks of Micron Electronics, Inc. Other product names used in this publication are for identification purposes only and may be trademarks of their respective companies. *Maximum transmission speed of up to 56Kbps when downloading data and 33.6Kbps when uploading. However, actual performance is dependent upon numerous factors and observed transfer rates may be less than the maximum potentials. **The TransPort Trek 166MHz system was ranked #1 by PC World, at the time of ranking the system was code-named "Micron Meridian." ***The CD-ROM drive will be removed upon the purchase of the DVD-ROM drive upgrade. †††System Wizard not available with Windows NT.

Dress for Success

LOOKING for outerwear to match your software? Microsoft Logo Merchandise has re-leased new Windows 98 hats, T-shirts, and polo shirts that let you show your true computing colors—all at great sale prices during the Windows 98 launch. Get 20 to 30 percent off selected items! In addition to apparel, get accessories like mouse pads and coffee tumblers. Check out the newest arrivals at http://www.microsoft.com/magazine/logostore/. While you' re there, be sure to drop by the editors' favorite spot: Bargain Basement close-outs!

training

Meet the Press

You might be the first on your block to run Windows 98, but will you be the first to run it at its full capacity? You could be if you stock your bookshelf with one or more of the relevant titles recently released by Microsoft Press. Whether you are a newcomer to Windows or an old hand, whether you have the time and inclination to take an in-depth look at the new technology or only require a quick reference guide for road trips, there likely is a Windows 98 title tailored to your needs. After all, why be first if you're not going to be best?

Additional titles and more information are viewable at http://www.microsoft.com/magazine/mspress/.

New titles from Microsoft Press can help you get the most out of Windows 98

Running Microsoft Windows 98

Running Microsoft Windows 98 is an all-in-one Windows 98 guide suitable for ambitious beginners as well as more advanced users. Learn how to install and optimize the product, and then incorporate some of the guide's potent tips and tricks to fast-forward to maximum productivity.

Microsoft Windows 98 Step by Step

The title says "step by step," and you can take baby steps or giant steps depending on your level of expertise. Leap into any section that addresses your particular interest, or proceed in an orderly manner from the first chapter of this personal training system. *Microsoft Windows 98 Step by Step* provides easy-to-follow lessons with clear objectives and real-world examples. This is a painless information source for those new to computing or Windows software, or anyone upgrading from an earlier version of Windows.

Windows 98 At a Glance

Got a problem that needs a solution right now? With its problem-solving orientation, *Microsoft Windows 98 At a Glance* is the visual reference work for you. Accomplish the task at hand—working with programs, the mouse, menus, files and folders, system tools, networking, or Internet access—with straightforward information accessible to users of all levels.

Windows 98 Starts Here

This interactive CD in the Starts Here™ series will start you on the right foot. You can move gracefully from Windows 95 to Windows 98 with the help of video introductions, step-by-step lessons, and quizzes that relate to your actual operating system.

Microsoft Windows 98 Field Guide

A good software manual can weigh in at 4 pounds or more. It may have all the information you'll ever need, but it's not exactly the thing to pack in your carry-on. The Field Guide series is different: The *Microsoft Windows 98 Field Guide* is a featherweight at only 12 ounces. Take it anywhere. It's highly portable and easy to use with A-to-Z listings and cross-referencing.

Quick Course® in Microsoft Windows 98

Sometimes you just want the How information, not the Who, What, Why, When, or Where. The Quick Course® series is the answer. *Quick Course® in Windows 98* is a lesson in efficiency, shortcuts, and optimization. Streamlined and fast, the course focuses on how-to instruction rather than features.

WHEN KODAK CHOSE WINDOWS NT WORKSTATION AND KINGSTON MEMORY,

everything began to click.

1 KODAK LOOKED AT ALL THE OPTIONS. But how many operating systems would you trust with 45,000 users? Stability and reliability were Kodak's first priorities. But because their networks are scattered all around the globe, security was a big issue too. In the end, the decision was easy—Microsoft® Windows NT™ Workstation 4.0.

2 NEXT, THEY UPGRADED BOTH NEW AND EXISTING PCS WITH KINGSTON MEMORY. That allowed them to expose all the best features of Windows NT Workstation. Users experienced an increase in performance. And thanks to Kingston's reliability and compatibility, the transition was smooth for network administrators. Putting ample memory on every desktop also helped lay the groundwork for the future.

3 MISSION ACCOMPLISHED. Now Kodak has an industrial-strength, global intranet that links their manufacturing, engineering, research and marketing units. Windows NT Workstation and Kingston® memory are at the heart of it. And yet Kodak is not alone. Why are so many leading companies building cutting edge networks around Windows NT Workstation and 64MB or more of reliable Kingston memory? To find out, call (800) 533-8713 or stop by www.kingston.com/info.

www.kingston.com/info

Kingston® TECHNOLOGY
COMPUTING WITHOUT LIMITS.®

Where do you want to go today?® Microsoft®

Kingston Technology Company, 17600 Newhope Street, Fountain Valley, CA 92708, (714) 435-2600, Fax (714) 435-2699. © 1998 Kingston Technology Company. All rights reserved. Microsoft and Windows NT are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Kodak is a trademark of Eastman Kodak Company. All other trademarks and registered trademarks are the property of their respective owners.

Circle 104 on the Reader Response Card

Shoot 'em up Run 'em Over

by David Shower

Outwars

Good Guys: Dreadnaut Marines. You—a man or a woman, your choice—lead a three-member attack squadron. You're foot soldiers fighting hand-to-hand. Effective leadership and smart tactical maneuvers are the keys to survival in Outwars™, so learn to deploy your fellow Marines wisely; they're the ones who'll back you up in case of ambush.

Bad Guys: Creepy insectoid aliens, affectionately called Skulls because of their bony appearance. These guys are mean, and they actively pursue the Dreadnaut forces with air attacks, cunning ambushes, and massed confrontation.

"This is what action gaming was meant to be: a strong plot backing up a dazzling 3D engine and challenging gameplay."

THE ADRENALINE VAULT
http://www.avault.com/

Dreadnaut Marines, pictured here in the game's 3D video introduction, are equipped with armor, jetpacks, and a full arsenal.

The Mission: In the far reaches of the Milky Way galaxy, the Skulls have been moving from planet to planet devastating human life. The Dreadnauts must save terrestrial life from extinction using all-out combat, stealth patrols, winged dogfights, and creative firepower.

Weaponry: Heat-seeking swarm missiles, flame throwers, plasma rifles, grenade launchers, and antipersonnel mines, among others. Add to this a sophisticated jetpack and glider wings for transportation dexterity. Choose your weapons and the hunt is on. You also select different suits of mechanized armor suitable for different types of missions. Heavier suits provide physical protection and support extra firepower, but weight can mean less speed and mobility. And lack of speed can kill.

Clash with international gamers online at the Internet Gaming Zone: http://www.microsoft.com/magazine/zone/.

> "This game is just a blast, that's all there is to it. Bill Gates wasn't kidding when he said his aim was to turn Windows into a viable gaming platform, as Microsoft seems to be consistently raising the benchmark in every single genre they tackle."
>
> GAMING AGE
> http://www.gaming-age.com/

Monster Truck Madness 2

Good Guys: You, behind the wheel of 1 of 20 monster trucks, some boasting World Championship Wrestling themes. Throw mud in the face of all comers, run over adversaries to the sound of metal crunching under your megatires—you can actually see and gloat over the damage you've stamped on their fenders. Monster Truck Madness® 2 is even better with the SideWinder® Force Feedback Pro joystick, which communicates every bump and grind in the road as you bounce along railroad tracks or blow through that fence.

Bad Guys: During single play, all the other trucks in the rally are looking to run you off the road. Constrained to the same physics as you, they are just as likely to wind up in a heap of twisted metal. Gamers also can challenge up to eight players simultaneously online using a modem, LAN, or the Internet. Multiplayer Summit Rumbles are king-of-the-hill games modeled after World Championship Wrestling matches.

The Mission: Navigate a circuit track for a predetermined number of laps or go cross-country in a road rally (oh, sure, there's a road—use it if you want to). Checkpoints along the way keep you honest.

Weaponry: Choose your truck, customize the cut of your tires, the transfer gear, and suspension in the Garage, then get behind the wheel and let it rip. A great enhancement in Monster Truck Madness 2 gives you the ability to change the weather. Choices range from your basic perfect day to a dark and stormy night. A word of warning: Don't mess with the weather until you *know* a track. A little snow, dense fog, and you'll be saying, "I think that was a turn back there…" as you wait for the helicopter to come put your truck back on the track. ⊗

You thought the first version was fun? Wait'll you experience the Force Feedback effects in this baby using the SideWinder Force Feedback Pro joystick.

find it on the Web

HOT LINKS

Outwars	http://www.microsoft.com/magazine/outwars/
Monster Truck Madness 2	http://www.microsoft.com/magazine/monster/
The Internet Gaming Zone	http://www.microsoft.com/magazine/zone/
SideWinder Force Feedback Pro	http://www.microsoft.com/magazine/feedback/
Gaming Age	http://www.gaming-age.com/
The Adrenaline Vault	http://www.avault.com/

Training Videos for

What Do You Need To Learn Today?™

Office 97 VIDEO COMBINATIONS

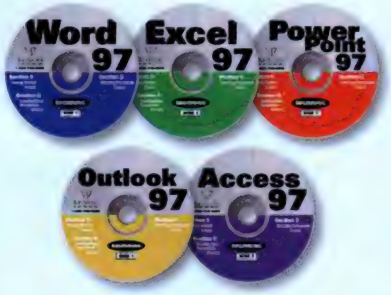
Microsoft Office Plus..... $579.95
WITH KEYNOTES $749.95

- 3 Word (Beg/Int/Adv) training videos
- 3 Excel (Beg/Int/Adv) training videos
- 3 Access (Beg/Int/Adv) training videos
- 3 PowerPoint (Beg/Int/Adv) training videos
- 3 Windows (Beg/Int/Adv) training videos
- 1 Outlook training video
- 16 videos with over 29 hours of training

Microsoft Office Pro $495.95
WITH KEYNOTES $639.95

- 3 Word (Beg/Int/Adv) training videos
- 3 Excel (Beg/Int/Adv) training videos
- 3 Access (Beg/Int/Adv) training videos
- 3 PowerPoint (Beg/Int/Adv) training videos
- 1 Outlook training video
- 13 videos with over 24 hours of training

CD-ROM/Tru-Media™ ..... CALL!
Multimedia training also available for Office Training Combinations



KEYSTONE LEARNING SYSTEMS CORP.

KeyStone Your Self-Paced Training Resource

Dan Balter
Microsoft Certified
& Windows 98 Instructor

Dawn Bjork
Microsoft Certified
& Word Instructor

NEW Windows 98

Classic Desktop	$49.95
Active Desktop	$49.95
Intermediate	$49.95
Advanced	$49.95
Internet Features	$49.95
Special-Any Four	$159.95
Special-All Five	$199.95

NEW Outlook 98

Basics	$49.95
Power Features	$49.95
Special Both Videos	$89.95

NEW Front Page 98

Level 1	$89.95
Level 2	$89.95
Level 3	$89.95
Special-All Three	$249.95

NEW Project 98

Level 1	$89.95
Level 2	$89.95
Level 3	$89.95
Level 4	$89.95
Level 5	$89.95
All Five Videos	$379.95

NEW Publisher 98

Beg/Int/Adv	(ea) $49.95
Special-All Three	$129.95

KEYNOTES Access 97

Beg/Int/Adv	(ea) $49.95
Special-All Three	$129.95
Developer Level 1	$89.95
Developer Level 2	$89.95
Developer Level 3	$89.95
Developer Level 4	$89.95
Developer Level 5	$89.95
Developer Level 6	$89.95
ODE Tools	$89.95
Access/Internet	$89.95
Enterprise	$89.95
Special-All Nine	$649.95

Free Book & CD w/set

KEYNOTES Excel 97

Beginning	$49.95
Intermediate	$49.95
Advanced	$49.95
Special-All Three	$129.95
Power Features	$49.95
Pivot Tables	$49.95
Shortcuts & Ideas	$49.95
Special-All Six	$239.95

KEYNOTES Windows 95

Beg/Int/Adv	(ea) $49.95
Special Features Plus	$49.95
Networking	$49.95
Installation	$49.95
Special-Any Three	$129.95
Special-All Six	$239.95

KEYNOTES Word 97

Beginning	$49.95
Intermediate	$49.95
Advanced	$49.95
Special-All Three	$129.95
Mail Merge	$49.95
Tables & Forms	$49.95
Desktop Publishing	$49.95
Internet	$49.95
Special-All Seven	$279.95

KEYNOTES PowerPoint 97

Beginning	$49.95
Intermediate	$49.95
Advanced	$49.95
Special-All Three	$129.95

KEYNOTES Visual FoxPro 5.0

Level 1	$89.95
Level 2	$89.95
Level 3	$89.95
Level 4	$89.95
Level 5	$89.95
Level 6	$89.95
Enterprise	$89.95
Special-All Seven	$499.95

Internet Explorer 4.0

Internet Explorer	$49.95

"You've hit the jackpot with your sales people. They are so courteous and friendly. In today's crazy world you just don't find them like this anywhere! I appreciate all of you so much. Friendly, happy people are almost a lost art. Please tell everyone how much I enjoy doing business with you."

-Joan Belles
Marathon Oil Company

S Corp.®, WordPerfect®, DOS and Microsoft®, Lotus®, Borland®, Adobe® and their products, are trademarks and/or registered trademark of Novell Inc., Microsoft Corp., Lotus Development Corp., Borland International Inc., and Adobe Corp., respectively.

Microsoft® Software™

KeyStone Learning Systems

Microsoft Certified Solution Provider

Your Windows Training Specialists

Kevin Wolford
Microsoft MCSE
& SMS Instructor

Paul Sheriff
Microsoft Certified
& Visual Basic Instructor

KeyNotes — Windows NT 4.0

Server Admn. Lev 1	$89.95
Server Admn. Lev 2	$89.95
Exam 70-67	
Enterp. Admn. Lev 1	$89.95
Enterp. Admn. Lev 2	$89.95
Exam 70-68	
Special All Four	$329.95
Serv. & Wrk. Install	$89.95
Exam 70-63 & 70-73	
Workstn. Admn. Lev 1	$89.95
Workstn. Admn. Lev 2	$89.95
Workstn. Admn. Lev 3	$89.95
Exam 70-73	
Special All Four	$329.95
Adv. Lev. 1/2/3 (ea)	$89.95
Special All Three	$249.95
Workstn. User Level 1	$49.95
Workstn. User Level 2	$49.95
Both Videos	$89.95
Special All Thirteen	$859.95

Networking Essent.

Level 1	$89.95
Level 2	$89.95
Level 3	$89.95
Special-All Three	$249.95
Exam 70-58	

NEW Transaction Server

Transaction Server	$89.95

KeyNotes — SQL Server 6.5

Level 1	$89.95
Level 2	$89.95
Level 3	$89.95
Clnt./Srv. Dev. Lev.1	$89.95
Clnt./Srv. Dev. Lev.2	$89.95
Sys. Adm. Lev 1/2 (ea)	$89.95
Special-All Seven	$499.95
Exam 70-26 & 70-27	

NEW IIS 4.x

Level 1	$89.95
Level 2	$89.95
Level 3	$89.95
Special-All Three	$249.95
Exam 70-77	

TCP/IP for NT 4.x

Level 1	$89.95
Level 2	$89.95
Level 3	$89.95
Special-All Three	$249.95
Exam 70-59	

NEW Exchange Server 5.5

System Admin. Level 1	$89.95
System Admin. Level 2	$89.95
System Admin. Level 3	$89.95
System Admin. Level 4	$89.95
System Admin. Level 5	$89.95
System Admin. Level 6	$89.95
User	$49.95
Special-All Seven	$499.95
Exam 70-76	

KeyNotes — Visual Basic 5.0

Level 1/2/3 (ea)	$89.95
Level 4/5/6 (ea)	$89.95
ActiveX/Automation	$89.95
ActiveX/Controls	$89.95
Multi-Tier Architect.	$89.95
Client/Srv. Dev. Lev. 1	$89.95
Client/Srv. Dev. Lev. 2	$89.95
Special-Any Six	$449.95
Special-All Eleven	$769.95

KeyNotes — Visual C++ 5.0

Level 1	$89.95
Level 2	$89.95
Level 3	$89.95
Level 4	$89.95
Level 5	$89.95
Level 6	$89.95
Special-All Six	$449.95

NEW Visual Source Safe 5

Level 1-2 (ea)	$89.95
Special-Both Videos	$169.95

Visual J++

Level 1/2/3 (ea)	$89.95
Level 4/5/6 (ea)	$89.95
Special-All Six	$449.95

Visual InterDev 1.x

Level 1/2/3 (ea)	$89.95
Level 4/5/6 (ea)	$89.95
Special-All Six	$449.95

Over 550 Titles

Prices subject to change.

Domestic Shipping: $5.00 for the first two video tapes, plus $1.50 for each additional video tape. International Orders: Shipping cost will vary, call for details.

Transcender Testing
MCSE Ready $149.00
($130.00) when purchased with corresponding video set)

All of Transcender's advertised guarantees apply. No KeyStone guarantees will be given.

Ask about KeyNotes™ $14.95 ea
KeyStone's Training Workbooks

Average: 2 hours of training per video

All Videos Also Available in PAL (European Format)

RISK FREE 30 DAY Money Back Guarantee

MCSE Certification
VIDEO COMBINATIONS

MCSE Certification Plus $1,995.00
- 8 Windows NT, 3 Networking Essentials, 3 TCP/IP, 5 Exchange Server
- Transcender Exam Simulations for:
  NT-Server Cert™ 4.0 (Exam70-67), NT-Cert™ 4.0 (Exam 70-73)
  NT-Enterprise Cert™ 4.0 (Exam 70-68), NT-Cert™ 2.5 (Exam 70-58)
  Exchange Cert™ 5 (Exam 70-76), TCP/IP Cert™ 4.0 (Exam 70-59)
- 19 videos with over 38 hours of training (Save $445.00)

MCSE Certification Professional $1,199.00
- 8 Windows NT, 3 Networking Essentials, 3 TCP/IP, 5 Exchange Server
- 19 videos with over 38 hours of training (Save $380.00)

MCSE Plus Internet $1,899.00
- 8 Windows NT, 3 Networking Essentials, 3 TCP/IP, 3 IIS, 7 SQL Server, 6 Exchange Server
- 30 videos with over 59 hours of training (Save $799.50)

4 Easy Ways to Order:

CALL ▶ 1-800-622-1158
801-375-8680

WEB ▶ www.klscorp.com/mma

FAX ▶ 1-801-373-6872

MAIL ▶ KeyStone Learning Systems Corp.
2241 Larsen Parkway • Provo, UT 84606

AD# MMSU8

Circle 101 on the Reader Response Card

We accept C.O.D., Company P.O. or check + VISA MasterCard American Express DISCOVER

What will the future bring?

Microsoft Office applications represent the world's most popular productivity software, influencing our lives at home and at work. In this interview, Microsoft vice president Jon DeVaan reveals how changes in store for Office reflect the evolution of personal computing.

As head of Microsoft's Desktop Applications Division, Jon DeVaan oversees the development of Microsoft Office and constituent applications—Microsoft Access, Excel, FrontPage®, Outlook, PowerPoint, Project, Publisher, and Word. Holding degrees in mathematics and computer science from Oregon State University, DeVaan has worked for Microsoft since 1984 in positions ranging from software design engineer to Excel development manager to vice president of development for the Office Product Unit. DeVaan has a unique perspective on Office products; we spoke with him about his vision for the upcoming version of Office (code-named "Office 9" at press time) and his commitment to meeting users' needs for creativity, flexibility, and productivity.

Microsoft Magazine: During your Microsoft career, you've been involved with many revolutionary developments in software. What advances are on the horizon for Office?

Jon DeVaan: Some of the most exciting things come out of our ability to create intelligent software. We're talking about software that actually knows the user, knows their habits, and makes the computer a participating partner. We've seen the beginnings of this in features like Office Assistant. Right now, Assistant can anticipate users' needs, and users can ask questions in natural language. We also see intelligence in functions like automatic spelling correction.

But these are just the beginning. The applications will be more sophisticated in the upcoming version of Office.

Can we have a sneak preview?

DeVaan: First, just like we're starting to make typos a thing of the past, we're going to be making grammatical errors a thing of the past with automatic grammar correction. Second, the cut-and-paste operation will be more sophisticated. With the current version of Office, you can do one cut at a time and one paste at a time. Next version, you'll be able to do multiple cuts at once and then paste those cuts one after another. That's a lot closer to the way people really think and work, and that's our goal—to have the software think and work the way the user does. We'll also have a really tremendous advance we call *self-repairing* applications. By that we mean that if there's a problem with a file, the software will be able to fix itself.

Can you elaborate?

DeVaan: Sure. Sometimes applications by different manufacturers conflict with each other, causing problems for people who have those conflicting programs installed on their computers. Technically, the problem can come up this way: When a user installs one application it can overwrite or install an older version of a file needed by an existing application. When that happens, usually one program works properly, but the other may not work at all. The user gets an error message but often can't fix the problem without reinstalling. In the next version of Office, the software will have the intelligence to detect the problem and repair the difficulty itself.

Keep tabs on the evolution of Microsoft Office and related applications at the Office Update site, http://www.microsoft.com/magazine/office/. In addition to the latest news on these products, you'll find valuable links to:

- Product info and demos
- Product enhancements
- Product assistance
- Business resources
- Points of view

find it on the Web
HOT LINKS
Microsoft Office Update http://www.microsoft.com/magazine/office/

This self-repairing capability will also come into play if a user accidentally deletes a file that's needed to run an existing Office application. Currently, when a required file is deleted, the user gets an error message that says something like, "A required .DLL file, WWINTL32.DLL was not found," and the application will be unable to start. In the next version of Office for Windows the software will find the problem on its own and fix it. In fact, the user will never know there was a problem in the first place. That will make everybody's computing life simpler.

Speaking of simpler, what can you tell us about advances in interaction with the World Wide Web and intranets?

DeVaan: That's another critical and exciting area. We really want users to get good results from their interactions with the Internet. So we're going to give users the flexibility to make every Internet contact count. The way we're doing that is to have Office support Internet standards. We've decided that since HTML is the agreed-upon language of the Internet—the agreed way of writing things down—we're going to use HTML as a companion file format. Today, when a document is on the Web or a company intranet in HTML, your software has to convert the HTML to a file format so you can read it. When we use HTML as our standard, that won't be necessary. You'll be able to download documents from the Web or an intranet without converting them from HTML to Word or Excel documents. This will make it faster and easier to share information.

Specifically, how will this change help users share information more easily?

DeVaan: Well, for instance, say you've written an article and you want a group to review it. In the new version of Office, you'll save the article to a Web site on your intranet, where the people in your group will read it. It's fairly predictable that about halfway through the reading, each person will want to make some changes—isn't that always what happens when you write something? With the new version of Office they'll be able to make changes right to the document. They won't have to download it, save it to another location, make the change, and load it again. It's a great timesaver, and that saves a lot of money.

Photography: Matthew Pugsley

> "Never in my wildest dreams would I have imagined the advances we've made or the direction we're going."

We've also found that these changes are just as important for small business owners and individuals who work at home as they are for bigger businesses. In the decades to come, sharing information is going to become more important for everyone. We want to help people take advantage of being connected.

How else will you do that—help people take advantage of the Web or intranets?

DeVaan: One way is by using intelligent software to help with connectivity. For instance, let's say seven people are working on a project, and project information is copied to a Web server. With the new version of Office, the server can be automatically set up to notify every project member by e-mail when one of the members makes a change to the project. If you're the one who made the change, you'll save time because you don't have to e-mail everybody to alert them. If you're a member of the project, you won't have to constantly check for project updates. The e-mail will keep you posted.

You've been with Microsoft for over 14 years. When you look back and then look ahead to the future, what strikes you most?

DeVaan: Let's take it back even a bit further. When I was in college, I was quoted as saying "64K of RAM—wow—what would you do with 64K of RAM?" I laugh just thinking back to that. Never in my wildest dreams would I have imagined the advances we've made or the direction we're going. Even at this point, we're looking at applications so intelligent that, some time in the future, we believe your software may be able to read your e-mail before you do, collate messages that are in some way related, and deliver a digest of the content. Right now it might sound far-fetched, but that's the way things are headed.

It's funny; I have this little test I do. Every time we have a new version of a product, I use the new one for a little while and then go back and use the old one. And it always gets to be painful to use the previous version. It hardly takes any time at all for us to get used to the new features and rely on them. And that's good.

With each new version we give people so much more. That's our plan and our vision. We're going to do that with the next version of Office, and with everything beyond.

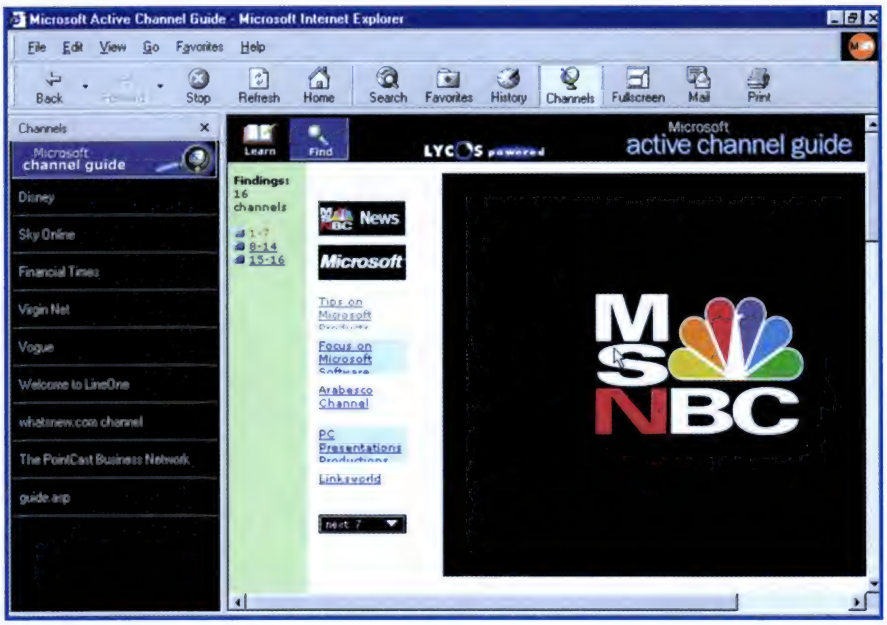
Windows 98

A star is born! Take a front row seat at the premiere of the latest operating system from Microsoft.

BY DERMOT HOGAN

The curtain rises

The questions have circulated for months: What is Windows 98? Is it an enhancement of the popular Windows 95? Is it a better way to use the Web? Is it a whole new operating system that takes advantage of advances in hardware technology? The answer to all of these is *yes*. ✸ Windows 98 builds on the foundation laid by Windows 95, adding support for the incredible hardware that's now available. With Windows 98 connecting you to the Internet, you can surf the Web



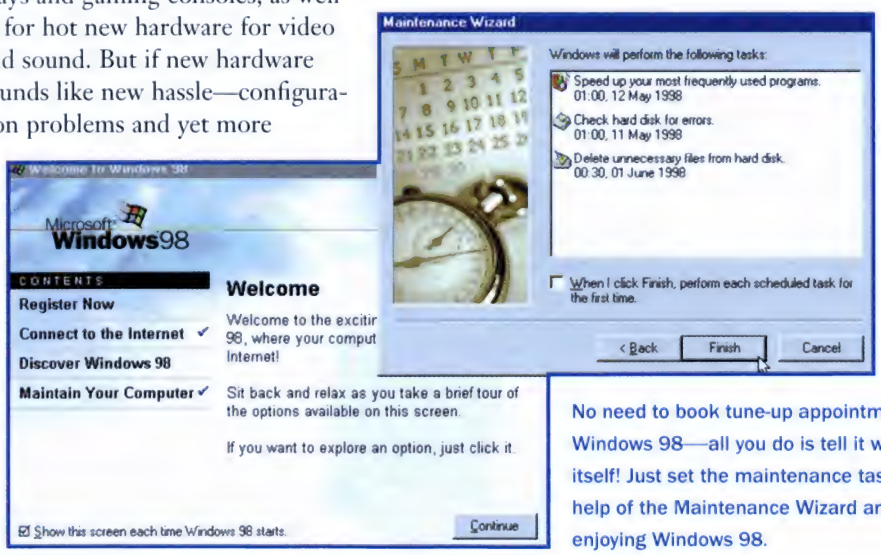
With Windows 98 and its integrated browser, you can access Web channels that cover everything from children's entertainment to the most up-to-date feed from the newsroom.

effortlessly while keeping your PC up-to-date through the Windows Update Web site. The goal of Windows 98 is to decrease the time between hitting the power switch and surfing the Net. And snappier performance isn't limited to startup time—your applications will load faster as well.

If you thought your PC was just for word processing and spreadsheets, then Windows 98 has a surprise in store. It now has great sound and entertainment capabilities with support for multiple displays and gaming consoles, as well as for hot new hardware for video and sound. But if new hardware sounds like new hassle—configuration problems and yet more wires—Windows 98 has the answer to that as well: The operating system is a genius at automatically organizing and configuring your PC.

Untangle the wires

There's a raft of new consumer hardware out there, and Windows 98 is already familiar with it. First, there's the Universal Serial Bus. The USB connects human interface hardware to your PC. It's a 12 megabit/second, daisy chain–style wire that connects peripherals such as digital cameras, scanners, video recorders, joysticks and controllers, and audio systems. There's no need to tell Windows 98 to connect these devices. Just plug in your camera or other peripheral. Windows 98 recognizes the new kid on the bus and configures the addition automatically without shutting down. In new PCs, keyboards and mice are also connected this way. Finally, that troublesome rat's nest of wiring will become history.


Maintenance Wizard
Windows will perform the following tasks:
Speed up your most frequently used programs.
01:00, 12 May 1998
Check hard disk for errors.
01:00, 11 May 1998
Delete unnecessary files from hard disk.
00:30, 01 June 1998
When I click Finish, perform each scheduled task for the first time.
< Back
Finish
Cancel
Microsoft Windows98
CONTENTS
Register Now
Connect to the Internet
Discover Windows 98
Maintain Your Computer
Welcome
Welcome to the excitir
98, where your comput
Internet!
Sit back and relax as you take a brief tour of the options available on this screen.
If you want to explore an option, just click it.
Show this screen each time Windows 98 starts.
Continue

No need to book tune-up appointments with Windows 98—all you do is tell it when to tune itself! Just set the maintenance tasks with the help of the Maintenance Wizard and get on with enjoying Windows 98.

Get unplugged

The USB will help untangle the wires, but even one wire can be snagged and disconnected. How about no wires at all? Windows 98 supports IrDA, the Infrared Data Association standard for wireless connectivity. IrDA support means you can connect easily to peripherals such as printers, IrDA keyboards, and infrared-enabled laptops, so you can transfer data without plugging in.

This works exactly like a television remote control. The two devices just have to be able to "see" each other from a reasonable distance. You can even network computers this way.

Tune in to Windows

Moving from local to global, your PC can actually tune in to television now. With WebTV® for Windows, a feature of Windows 98, a PC with a television tuner board can receive and display television and other broadcast data, including Internet information. You'll have access to the

find it on the Web HOT LINKS

Windows 98 Logo Program	http://www.microsoft.com/magazine/logo/
Microsoft Plus! 98	http://www.microsoft.com/magazine/plus/
Windows 98	http://www.microsoft.com/magazine/windows/
microsoft.com	http://www.microsoft.com/magazine/microsoft/
Microsoft Press	http://www.microsoft.com/magazine/mspress/
Windows 98 Guide	http://www.microsoft.com/magazine/winfo/

Windows 98 Program Guide, which provides a schedule of PC television shows. Then you can tune in instantly.

With Windows 98, you'll also be able to receive enhanced television programs, which combine standard television with HTML information relevant to the broadcast. This architecture will extend to receiving Internet content and other data services—traffic reports and news summaries, for example—by way of the broadcast network as they become available.

Connections

In Windows 98, the Internet Explorer 4.0 Web browser is totally integrated. You have the option to view the desktop almost like a Web page, with single-click operation, tickers, and channel content hooked directly into your screen. But Windows 98 also makes it easier to establish an initial Internet connection. You can choose from a number of primary Internet vendors or sign up with any provider through the point-and-click Internet Connection Wizard.

Startup speedup

Windows 98 aims to deliver faster performance from the moment you hit the power switch. Even as PCs have become more powerful, the time it takes to load the operating system (and reach the point at which you can start working) has remained the same—or even increased.

Windows 98 cuts to the chase by putting all the parts of the operating system in close proximity on the hard disk. This means that the disk head—the part that tracks over the disk surface to read or write data—moves minimally as it loads the system. This small savings in movement has a big impact, cutting startup time as much as 30 percent.

Trouble-Free Installation

WINDOWS 98 INSTALLATION is smooth thanks to several enhancements that speed installation, minimize your obligatory input, and detect and configure more devices. Windows 98 has a greatly expanded library of plug-and-play devices and a really smart Installation Wizard. Just about the only thing the Windows 98 development team didn't figure out how to do is put the installation CD in the drive for you.

Here are the minimum system requirements:

- 486DX2/66 MHz or higher processor
- 16 MB of RAM, though you'll find that, as usual, more memory improves performance
- Windows 95, Windows for Workgroups 3.11, Windows 3.1, or access to the MS-DOS® command prompt
- VGA or higher-resolution monitor
- CD-ROM or DVD-ROM drive
- High density, 3.5-inch floppy disk drive
- Microsoft Mouse or compatible pointing device
- 195 MB of available hard disk space for a typical installations, but installation may range from 120 MB to 295 MB, depending on your system configuration and the options you install.

You can install Windows 98 over Windows 95, Windows for Workgroups 3.11, or Windows 3.1 by inserting the Windows 98 CD and clicking the Setup icon. One feature in the installation that's a particular improvement over its Windows 95 predecessor is in the startup disk. When Windows 98 builds this during installation, it now includes a real mode (MS-DOS) CD driver, so you can access the CD drive from the basic DOS system on the emergency startup disk. If you ever have to reinstall Windows 98, you can boot off the disk; simply put the Windows 98 CD in your CD drive and you're back in business.

After you install Windows 98, check the Windows Update site (click the **Windows Update** tab on the **Start** menu; Windows 98 does the rest) to register as a user and see if there are any late-shipping driver fixes.

And if you ever need to go back to Windows 95, Windows 98 gives you the option of saving vital Windows 95 operating system–based files so you can revert if necessary.

Windows 98 CD-ROM
Microsoft
Windows98
Interactive CD Sampler
Cool Video Clips
Windows 98 CD-ROM
This CD-ROM contains a newer version of Windows than the one you are presently using.
Would you like to upgrade your computer to this new version of Windows 98 now?
Yes
No
Cancel

If you already have Windows 95 installed, you'll find the Windows 98 installation simple. Just load the Windows 98 upgrade CD and click Yes. Windows 98 handles most of the installation on its own.

Why Window Shop ...when you can buy now?

electronics boutique®

OVER 500 STORES NATIONWIDE

25% OFF WINDOWS 98 REFERENCE GUIDES

$19.99

$39.99

$89.99

$149.99 - $20.00 MAIL-IN REBATE = $129.99 FINAL COST

$29.99 - $20.00 MAIL-IN REBATE = $9.99 FINAL COST

$59.99 - $20.00 MAIL-IN REBATE = $39.99 FINAL COST

$99.99 - $20.00 MAIL-IN REBATE = $79.99 FINAL COST

$39.99 - $20.00 MAIL-IN REBATE = $19.99 FINAL COST

$49.99 - $20.00 MAIL-IN REBATE = $29.99 FINAL COST

$49.99 - $20.00 MAIL-IN REBATE = $29.99 FINAL COST

$49.99

$44.99 - $20.00 MAIL-IN REBATE = $24.99 FINAL COST

$124.99 - $20.00 MAIL-IN REBATE = $104.99 FINAL COST

$79.99 - $20.00 MAIL-IN REBATE = $59.99 FINAL COST

$44.99 - $20.00 MAIL-IN REBATE = $24.99 FINAL COST

*ALL MAIL-IN REBATES EXPIRE 8/31/98.

$10.00 OFF

CODE#: EBMS1

Receive an instant $10 off any Microsoft item over $40 when you purchase Windows 98 on-line @

www.ebworld.com

IMPORTANT:

To receive $10 off on final invoice for Microsoft products add "MSEB1" to the end of your last name on the "Bill to" screen of the EB Website. $10.00 will be reflected on final invoice.

*COUPON VALID ON-LINE ONLY. OFFER EXPIRES 7/31/98.

$5.00 OFF

CODE#: EBMS1

Receive an instant $5 off any one of the products featured above when you purchase Windows 98™ from

electronics boutique® EBX Walden Software STOP

CALL 1-800-800-5166 FOR THE STORE NEAREST YOU

*COUPON VALID IN-STORE ONLY. OFFER EXPIRES 7/31/98.

Circle 109 on the Reader Response Card

This smarter way of storing files on the hard disk doesn't apply only to Windows. The new Disk Defragmenter, for example, can be used on programs, so not only does Windows start faster, your applications do too.

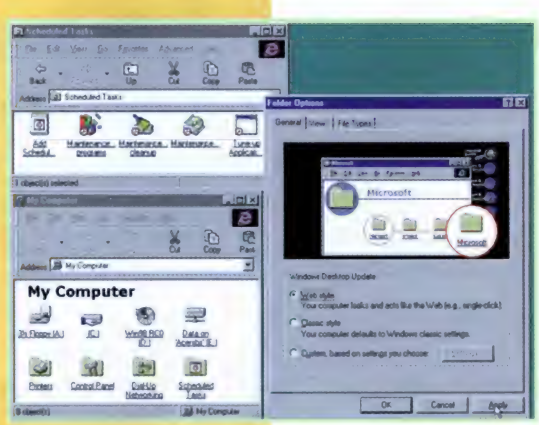
Windows 98 also shuts down faster. At shutdown, it's critical that Windows has written all modified data from memory onto the disk, and that the disk directories are consistent and secure. Sound cards and similar hardware are less important and can safely be ignored. Windows 98 prioritizes what is necessary for an orderly shutdown, leaving you confident that your PC is in good shape to start work the next time you turn it on. If you turn off your PC without shutting Windows down properly (not recommended) or suffer a power failure, Windows 98 will automatically run ScanDisk for you upon startup, checking the disk for consistency before continuing with its initialization.

Be Productive

Turbo-charge your productivity with new Windows 98 titles from Microsoft Press. Go to http://www.microsoft.com/magazine/mspress/ to order from the source. Also see Quick Clicks on page 12 of this issue for more information.

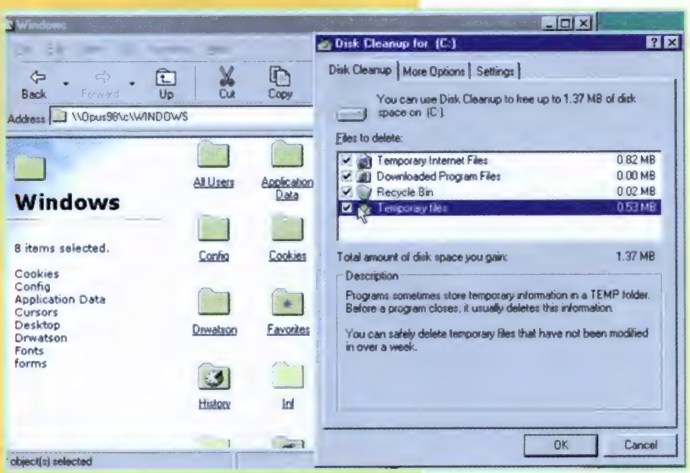
Lean and mean disks

It's a law of computing that no matter how big your disk is, you'll fill it. Mostly with rubbish, too: things you forgot to delete, temporary files, unwanted programs, and so on. Windows 98 helps you spring-clean your disk with the Disk Cleanup utility. The utility searches for unwanted temporary files and old Internet download files, and checks the Recycle Bin. You'll find that a regular run-through with Disk Cleanup will keep your disk trim.



You can configure your desktop to look and behave like a Web page, with single-click operation, channel content, and Forward and Back navigation buttons.

With the new Windows 98 Internet Connection Wizard, you'll find it simple to connect to the Internet service provider of your choice. This wizard sets up your PC for a smooth and hassle-free Web connection.



The new Windows 98 Disk Cleanup utility searches for those files you forgot you had and spring-cleans your hard disk.

Self-maintenance

The Windows Update for system components is another cool feature of Windows 98. Hardware manufacturers often distribute new drivers (the software that connects Windows to the hardware) that add new features and fix bugs. Downloading these drivers isn't generally a problem (they aren't very large); the problem is learning that they even exist to be downloaded in the first place.

The Windows Update Web site is a centralized resource where registered Windows 98 users can obtain the latest drivers and operating system upgrades on a regular basis. It acts as a clearinghouse for bug reports and fixes reported from around the world. If you've got a problem, this should be the first place you look for solutions; use it to find the latest technical tips and news updates.

Movie mania

Windows 98 really hits its stride with multimedia. Your PC may not look like a home entertainment center now. But it soon will. Windows 98 is about to explode into a cinema near you: your living room.

Windows 98 integrates a range of technology, expanding the horizon of video and sound in home entertainment. Recent hardware advances have consolidated into a new PC standard, replacing the sometimes hit-and-miss approach of earlier improvements. The result? A simpler yet more flexible and powerful PC platform for Internet surfing, games, and movies—even directing, editing, and showing your

Nothing Lasts Longer

The world's best-selling UPSs now start at $99

Site Wiring Fault Indicator automatically identifies building wiring problems

BlockSafe™ outlets give you room to plug in transformer blocks

Now the world's best-selling desktop UPS units offer you even more value for your power protection dollar! With over 45% of all data loss and downtime caused by bad power, your APC investment pays for itself the first time you use it.

New: More power and guaranteed "Best in Class" Longest Runtime.

Our runtime will meet or exceed that of any same VA UPS for desktop applications, or your money back!

Multipath protection for your whole system

APC protects your CPU, monitor, external modem, laser printer, fax machine, and zip drives, and provides telephone/network surge suppression.

User-renewable UPS system

APC QuickSwap™ battery packs are the quickest and easiest way to safely renew a UPS, unlike "disposable" UPSs which don't allow safe user replacement and mean the end of your investment.

APC Back-UPS Pro®, Back-UPS® and Back-UPS Office® will provide runtime which meets or exceeds that of any same VA UPS for desktop PC applications or your money back. For more information, visit www.apcc.com.

PC Computing — "Long Lasting" "Back-UPS Pro was our favorite unit..., [it] won top honors in our battery life tests"

Safe, even from lightning

APC multi-stage surge suppression clamps down on lightning and offers a $25,000 guarantee against damage to your equipment. See policy for details.

APC packs the power and features desktop users want, plus the peace of mind and legendary reliability reflected by over 8,000,000 field-tested and proven units.

Back-UPS Pro™ Power User Features

PowerChute® plus power management software lets you configure UPS response to over twenty events. During an extended outage, WorkSafe™ can automatically save data, close programs, and shut down your computer, whether you're there or not.

Automatic Voltage Regulation (AVR) with DoubleBoost™ and CellGuard™ intelligent battery management let you work through the deepest prolonged brownouts without wasting battery power, extend battery life, and speed recharging.

APC Safety, Readiness and Reliability

Microprocessor-controlled automatic battery self-test regularly checks status of the unit and ensures battery readiness

QuickSwap™ user-replaceable battery system lets you easily renew the UPS system and avoid factory service delays

Push-button circuit breaker provides user-resettable overload protection and eliminates the need to replace a traditional fuse or even the entire "disposable" UPS

Internet and network ready

"Editors' Pick: "We wouldn't be caught dead without an uninterruptible power supply – and neither should you."

FREE! Catalog and UPS Selection Guide

Just mail or fax this completed coupon for your FREE catalog and UPS selection Guide. Better yet, order them today at:

http://promo.apcc.com KEY CODE D302Z

☐ YES! I'd like more information. Please send my FREE catalog and UPS selection Guide.

☐ NO, I'm not interested at this time, but please add me to your quarterly newsletter mailing list.

Name: _____

Title: _____ Company: _____

Address: _____

_____

City/Town: _____

State: _____ Zip: _____ Country _____

Phone: _____

Brand of UPS used? _____ # _____

Brand of PCs used? _____ # _____

Brand of Servers used? _____ # _____

APC AMERICAN POWER CONVERSION

FRANCE 98 WORLD CUP

OFFICIAL POWER PROTECTION SOLUTIONS

(888) 289-APCC x8027 • FAX: (401) 788-2797

Available at: STAPLES · BEST BUY · Fry's · COMPUTER DISCOUNT WAREHOUSE 800-334-4239 · OfficeMax · PC Connection 800-800-1111 · COMPUSA · GLOBAL COMPUTER SUPPLIES 800-845-6225

©1998 APC. All Trademarks are the property of their owners. BK1B8EF - US • (800)347-FAXX PowerFax • E-mail: apcinfo@apcc.com • 132 Fairgrounds Road, West Kingston, RI 02892 USA

APC has won more awards for reliability than all other UPS vendors combined.

Circle 103 on the Reader Response Card

own films. Move over, Steven Spielberg!

Digital close encounters

Take DVD, a new digital technology that is set to revolutionize the PC world, from running reference works like the Encarta® multimedia encyclopedia on CD-ROM to cinema-quality audio and video on your PC. A DVD disk looks like a CD but can hold 26 times the information. With the massive data capacity of DVD, Encarta could expand its moon landing content to include views of the engineering blueprints for the Apollo spacecraft and maybe show one of the moon landings on video at the same time!

But even this sizable data store is still insufficient to hold a feature film. You might get Snow White, but the Seven Dwarfs would be a squeeze. There's a get-out clause, however; the data can be substantially compressed without any loss in quality, thereby making it possible to fit a full-length film on a DVD disk.

This is where Windows 98 comes into play. After a movie is compressed onto a DVD disk, expanding and processing the data that's barreling down at the operating system from the DVD requires some serious cooperation between Windows 98 and the hardware. This comes in the form of DirectX® applications in Windows 98, which are designed to handle digital video data whether from a film on disk or from a high-powered game.

Direct action

DirectX is the name for a set of related technologies: DirectDraw®, DirectShow™, DirectSound®, Direct3D®, and DirectInput®. Each helps multimedia work properly on a PC in a specific way. With current games, you may have noticed that the video sometimes halts for a second and then continues, especially in games with long film-style video sequences. This *frame dropping* occurs when the software and the hardware can't keep up and eventually "forget" a frame in a video sequence.

Windows 98 attacks the problem from two angles. First, Windows 98 is a lot smarter. If you run the same game on

Hot Toys and Cool Tools

WHERE WOULD JAMES BOND be without high-tech gadgets? Now you too can wield such state-of-the art devices. Imagine a desktop fingerprint scanner that confirms your ID as you type (no more passwords to remember). How about hooking up your camcorder, VCR, or TV to your PC and editing videos or capturing still images? Cutting-edge devices like this are not just the stuff of *Mission: Impossible.* They are being developed, or already exist, to take advantage of new PC technologies such as the Universal Serial Bus.

These cool tools take plug-and-play for granted and expand the uses for your PC. You can instantly connect multiline telephone systems that enable you to transfer and store voice mail, faxes, and e-mail to one spot on your PC.

USB also makes it possible to hook up a bevy of devices. Say you want to keep your mouse, a trackball, and a joystick plugged in at all times instead of constantly unplugging and replugging these devices. No problem.

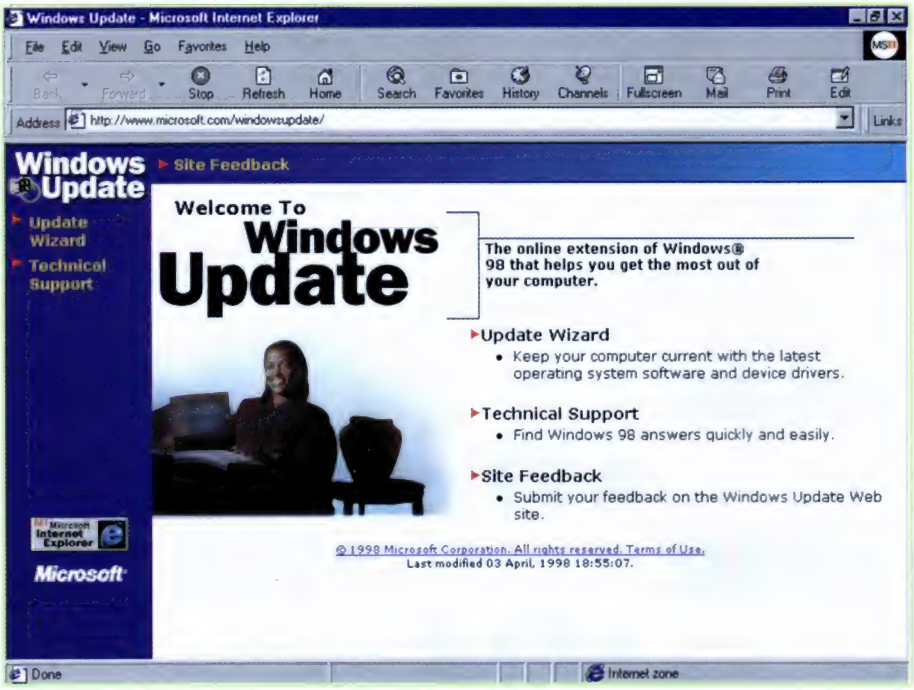
Because you can watch TV and DVD disks and play the latest games on your PC, you may want to beef up your multimedia system. Windows 98 supports a higher standard for digital audio speakers, so you can enjoy movies and games with full, bass-booming stereo sound. Even better, USB eliminates the need for sound cards by integrating peripheral controls such as audio equipment into the PC interface. Now you can adjust volume, balance, and other audio controls on screen, instead of tweaking and turning the knobs of the attached speakers, camcorder, or VCR. And with enhanced video capability, thanks to AGP, MMX, and DirectX, users frustrated by slow video playback in games and streaming video will be pleasantly surprised by the advances in Windows 98. If you've been waiting for just such a video playback breakthrough before splurging on a DVD player, wait no more.

Infrared-equipped devices such as cellular phones, pagers, and PCs are already used to exchange electronic business cards, telephone book entries, messages, and more—all without a physical hook-up. The number of usable infrared devices increases with Windows 98, however.

We know you're itching to get your hands on all the goodies that work with the latest Microsoft technology, but how can you tell which joysticks, keyboards, digital cameras, and other peripherals are compatible with Windows 98? Just look for the Designed for Microsoft Windows 98 logo.

Before a product can qualify for the Windows 98 logo, it is rigorously tested by an independent third party. It also must be easy to install and uninstall. When you see the Designed for Microsoft Windows 98 logo you can be confident that the product is designed to work seamlessly with Windows 98 and take advantage of the latest software and hardware technology available to Windows 98.

For more information go to http://www.microsoft.com/magazine/logo/.


Windows Update - Microsoft Internet Explorer
File Edit View Go Favorites Help
Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Edit
Address http://www.microsoft.com/windowsupdate/
Links
Windows Update
Site Feedback
Update Wizard
Technical Support
Welcome To
Windows Update
The online extension of Windows® 98 that helps you get the most out of your computer.
Update Wizard
• Keep your computer current with the latest operating system software and device drivers.
Technical Support
• Find Windows 98 answers quickly and easily.
Site Feedback
• Submit your feedback on the Windows Update Web site.
© 1998 Microsoft Corporation. All rights reserved. Terms of Use.
Last modified 03 April, 1998 18:55:07.
Microsoft
Done
Internet zone

Stay abreast of the latest Windows 98 software and technical help with the Windows Update Web site, shown here in beta. If you have a problem, this is the first place to look for solutions.

Get More Stuff!

Microsoft Plus! 98 is the ideal companion to Windows 98. This suite of utilities, themes, and games helps you manage, customize, and enjoy your computer even more. Here's a look at what you get:

Powerful system utilities

- **McAfee VirusScan**
- **File Cleaner**
- **Start Menu Cleaner**
- **Compressed folders**

Fun and games

- **Desktop themes**
- **Deluxe CD player**
- **Picture It!® Express**
- **Lose Your Marbles**
- **Spider Solitaire**

Lean more about Microsoft Plus! 98 at http://www.microsoft.com/magazine/plus/.

Windows 98, you'll find it runs smoother and more consistently. Windows 98 knows all about multimedia, and provides a great gaming environment through its close integration with DirectX. But the major advance in handling multimedia is the support Windows 98 provides for hot new hardware.

Hit the accelerator

Advances in hardware always require advances in software. It's no good having the fastest chip if all you can do with it is admire its speed; you have to have something to run on it and an operating system that knows how to make the hardware sing.

But simply upping the processor clock speed or developing new ways to compress and decompress data won't cut the multimedia mustard. There are other things to consider. Take the PCI bus, the high-speed replacement for the old ISA bus that connects the microprocessor and other hardware in PCs. It's fast enough for most jobs, but not for running movies.

Traditionally, the microprocessor loads video data from a disk into the PC's memory via the standard PCI bus. Then the graphics adapter retrieves it via the same PCI bus and loads it into its own graphics memory. This means your PC isn't working as well as it could—in fact, the congestion at JFK International Airport looks like a minor traffic snarl in comparison.

Windows 98 alleviates the congestion by supporting a new graphics bus standard, the Accelerated Graphics Port. The AGP is a superfast bus directly connecting the main system memory to the graphics adapter, bypassing and relieving the data pressure on the PCI bus. The effect on PC graphics performance is like opening a whole new runway at an airport. And faster data highways mean cinema-quality video and awesome game simulations.

Mix it up with MMX

Windows 98 doesn't address just one single aspect of making the PC a great multimedia machine. Getting the data in and out of the PC to eliminate dropped frames is one part, but DirectX and Windows 98 also support Pentium MMX (multimedia extension) instructions. MMX, a standard in new machines, speeds up video operations by transferring them from the program into the microprocessor core, so the hardware executes them much faster.

Yet to this point few games and audiovisual programs have taken advantage of MMX, mainly because it was not directly supported within Windows. If you're a game writer and you wanted to use special hardware instructions, you had to write two versions: one for PCs with MMX and one for those without. Not surprisingly, few game authors have chosen to assume this added burden.

Windows 98 improves the situation by putting the hardware aspect of game writing into the DirectX system. DirectX determines whether to use MMX, leaving the game writer free to concentrate on ever more special effects. Soon, you'll get

fantastic games using the hardware's total power. Prepare to be amazed.

Double vision?

Until now, PCs and multimedia have faced one large limitation: only one monitor. No longer! Windows 98 supports multiple display graphics adapters. With more than one display running off your PC, you can use the increased screen real estate to turn your PC into a real desktop with, say, Encarta reference material on one screen and the newsletter you're editing on another. (Or the ball game on one and your work project on the other.)

On the games front, Microsoft is working closely with developers to add features like side views so you don't have to toggle views via the keyboard or games console. Imagine, after a hard day, settling down for an evening flight in Microsoft Flight Simulator 98 with two monitors for the side windows, one for the front window, and your controls on the last. Who needs a Lear jet?

Balancing act

Making multimedia work takes more than a faster processor or additional memory. The whole environment must be engineered so the system is balanced. With a car, by analogy, there's no point in having a supercharged engine if the brakes and tires aren't upgraded to match.

There are many examples of engineering balance in Windows 98. Now 9 GB hard disks won't be held back by a file system originally designed for a floppy disk: the new FAT 32 file system enables you not only to install large disks, but to utilize them efficiently as well.

The old FAT 16 system, designed for the 360 KB floppies of the early 1980s, didn't work very well with disks that run to billions of bytes. With large hard disks, FAT 16 had to allocate disk space inefficiently in large chunks. So even if a file had only a few bytes in it, FAT 16 still allocated, say, 32 KB of disk space. FAT 32 makes better use of disk space; the minimum file allocation is now down around 4 KB. The result is more usable hard disk space. System tune-ups with the Windows 98 Maintenance Wizard for automatic disk defragmentation, hard disk error checking, and minimized startup time for your most commonly used programs will keep your system at peak performance. The Update Wizard will search out and load the latest hardware drivers directly from the Web, ironing out any remaining hardware problems.

The breadth of Windows 98 multimedia support is surprising. Windows 98 addresses more than the basic problem of supporting media with feature-length-film capacity. It also supports decompression hardware, the wide buses needed to cope with the data, MMX instructions, 3D accelerator hardware, plus the programming tools required to use them. Omit any one of these and you won't have a workable multimedia system. Get them all together—and get them right—and you have a truly great multimedia system. And combined with self-maintenance, seamless Internet integration, and great new hardware support, you've got Windows 98. ⊗

Imagine running Microsoft Flight Simulator 98 on more than one monitor at a time. It could happen. Windows 98 supports multiple-display graphics, opening a host of possibilities to game developers.

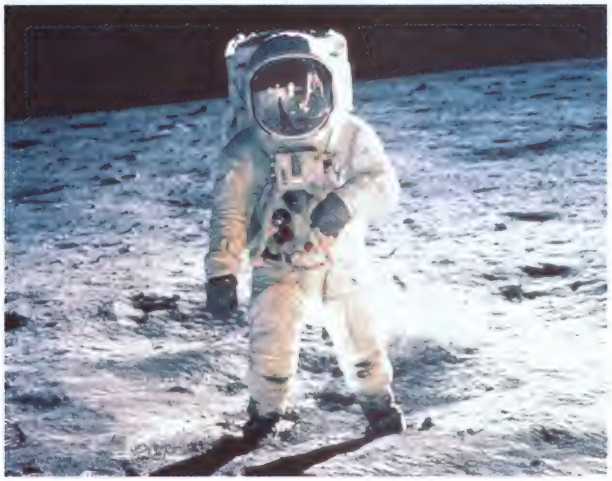
News from the Source

Visit microsoft.com for up-to-the-minute information on Windows 98. The core Windows 98 site is http://www.microsoft.com/magazine/windows/. You can also check for late-breaking news about Windows 98 and other Microsoft products on the microsoft.com home page at http://www.microsoft.com/magazine/microsoft/.

Your Guide to Windows 98

We've got more information for you on the Personal Computing site. Look for our Windows 98 Guide, scheduled to go online in late June, at http://www.microsoft.com/magazine/winfo/.

"Someday, man will walk on the moon."



Every so often, someone makes a fantastic claim. Then backs it up.

"Someday, a color printer will offer the highest resolution at the lowest price in its class."

Introducing the Lexmark 5700 Color Jetprinter,™ with a 38% higher dpi rating than the nearest competitor, for the sharpest text you can get and brilliant, life-like photos. The revolutionary Accu-Feed™ system lets it print virtually without jams or misfeeds on any paper, at speeds up to 8 ppm. Best of all, it costs just $249. Syndicated columnist Don Crabb says in the *Chicago Sun-Times*,* "With units from Canon, Epson and Hewlett-Packard vying for the title of highest resolution and lowest price, along comes Lexmark...winning the battle." ***The Lexmark 5700.*** *The proof is in the printing.*

LEXMARK™

For more information, call 1-800-LEXMARK (1-800-539-6275) or visit us at www.lexmark.com.

* May, 1998. © 1998 Lexmark International, Inc. All rights reserved. Lexmark and Lexmark with diamond design are trademarks of Lexmark International, Inc., registered in the United States and/or other countries. Accu-Feed and Color Jetprinter are trademarks of Lexmark International, Inc. All other trademarks are the property of their respective holders.

Circle 107 on the Reader Response Card

Microsoft Magazine proudly presents the winners of our Reader Tip Contest

Last fall, *Microsoft Magazine* asked readers to send in their favorite tips and shortcuts for getting the most out of Microsoft products. The response was exceptional. We received tips that spanned the spectrum of personal computing, from productive shortcuts to "gee whiz" techniques.

Congratulations to our winners, who each received a $100 gift certificate for Microsoft products. Our winners are: Jerry Bradford II, Jace Cavacini, Susan Parks, and Craig Schatzman. They authored the four tips that, in the opinion of the magazine editors, were the most useful, clear, unique, and reproducible. We present their winning entries here, along with some of our favorite runners-up.

find it on the Web

HOT LINKS

Support home page http://www.microsoft.com/magazine/support/

More tips and tricks http://www.microsoft.com/magazine/tricks/

Microsoft Personal Computing http://www.microsoft.com/magazine/summer/

Reduce confusion when moving or copying files

WINNER: Jerry Bradford II

Copying and moving files by clicking and dragging can be confusing for new Windows users. When you click and drag one or more files to a new folder on the same disk drive (hard disk or floppy) the file is moved to the new location. When you click and drag one or more files to a new folder on a different disk drive (hard disk or floppy) the file is copied to the new location.

An easy way to reduce the risk of moving when you meant to copy or vice versa, is to use the right mouse button to drag files to the new location.

1. Use the right mouse button to select the file(s) you wish to move or copy, and drag them to the new destination. When you release the right mouse button, a pop-up menu will appear.
2. On the pop-up menu, click **Move Here** or **Copy Here** as necessary.

Open obscure text files with Notepad

WINNER: Jace Cavacini

Rather than creating numerous file associations in Windows 95 for file types you use only occasionally, add a shortcut to Notepad.exe in the C:\Windows\SendTo folder. You can open almost any file using Notepad, regardless of its extension. This eliminates the need to create file associations to Word or WordPad for text files with unusual extensions such as Read.me, Readme.1st, or Fileid.diz.

After you add Notepad to the Send To menu, simply right-click any file, point to **Send To**, and click **Notepad**.

Editor's Note: **For a tip on adding destinations including Notepad to your Send To menu, turn to Tips and Tricks, page 46.**

Use AutoCorrect for international characters

WINNER: Susan Parks

Use AutoCorrect to easily type names that include accented characters or other international symbols. In a multicultural environment, proper names often have accents, tildes, umlauts, carets, and other symbols—called *diacritical marks*—not found on the English keyboard. Microsoft Word 97 has international keyboard sets, but it can be time-consuming to toggle through several language keyboards for one document or do it repeatedly for many documents. (See related tip on page 34.) Here is an easy way to format international names and other words that you type regularly.

1. With a document open, on the **Tools** menu, click **AutoCorrect** and select the **AutoCorrect** tab.
2. In the **Replace** box, type the name you wish to automate. Do not use diacritical marks.
3. In the **With** box, type the name with the diacritical marks.
4. Select the **Replace text as you type** check box. Click **OK** to save the format.

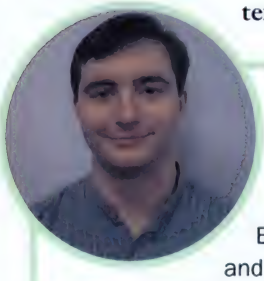
Editor's Note: **Use the symbol key layout in Word to help with international characters. In a Word document, on the Insert menu select Symbol to view and type the special characters. Then copy and paste the name from the document into the With box in the AutoCorrect window.**

Quick-search the Web from the Address Bar

WINNER: Craig Schatzman

In Internet Explorer 4.0, you can search the Web from the Address Bar without navigating to a search engine first. In the Address Bar, simply type **go**, **find**, or **?** followed by a space and the word or

Jace Cavacini, 22, recently leapt from a technical support job to a new position as a multimedia graphic design specialist for the same company. The two jobs require substantially different skill sets, but Cavacini is mostly self-taught in both areas. His computer expertise can be traced to a Tandy 1000TL with a 286 processor that his parents bought in 1988. He talked them into the purchase because of an interest in science fiction—home computers were still somewhat futuristic at the time. Summer and temp jobs contributed hands-on experience to his technical education, but mostly, he says, "I figured it out for myself." These days, Cavacini uses a Pentium 133 with an Alesis QS8 keyboard, and he composes music in the MOD/XM and MIDI formats.



A tip aimed at making computing easier for beginners came from ***Jerry Bradford II***, 24, who teaches beginning and more advanced users at the Washington County Career Center and at the Family Learning Center in Marietta, Ohio. Bradford is a network administrator and part-time consultant, and teaches adult-education courses. The Family Learning Center is one of 14 grant-funded open access computing centers in Ohio. Part of the national Community Technology Centers Network, it offers free computer and Internet use to all comers, as well as individual training and low-cost workshops. The two-year-old center is housed in the same building with organizations offering adult literacy courses and homework tutors. "Someone can come in, learn to read, obtain their GED, and acquire the necessary computer skills for job placement all in the same location," he says.

Former principal and teacher ***Susan Parks***, 51, is superintendent of a multicultural school district in Southern California. Her years working with young people taught her "how important people's names are to them. A name is not *your* name unless it's spelled right." So she has shared her tip—using AutoCorrect to replace names typed on a standard English keyboard with the correct international spelling—with others in her school district, much to their satisfaction.

Parks's first computer in the early 1980s was a Morrow MD3. Now she uses various high-powered systems at work and at home. She is an earnest advocate of the Internet and e-mail. She uses e-mail to keep in touch with her family; correspondents include a son studying in Spain and her mother, who is in her 70s. E-mail is also instrumental in Parks's work with the local Rotary Club and the group's effort to eradicate polio worldwide. "We use the Internet and e-mail to make connections between clubs," she says.

contest

If ***Craig Schatzman***, 22, becomes the next John Grisham, you read it here first, folks. A spring graduate of Brooklyn College, Schatzman is headed to law school in the fall. And he writes fiction. Schatzman discovered computers recently, in 1995. As a student, he used a dedicated word processor to slog through 15-page term papers until a friend, who always seemed to finish his papers much faster, talked Schatzman into trying a PC. The first time he used it, he trimmed three hours off the time for a political science paper, and a convert was born. Computer games came next, "and I've wasted many hours since then" on sports games and shoot-'em-ups. "I have to think too much all day," he says. "That's why I like video games where you don't have to think."

phrase you want to find. Then press ENTER.

Editor's Note: **The search engine used with this feature is predetermined. At press time, Yahoo was the default search engine. For more information on search shortcuts and other ways to search, go to the Internet Explorer Help index and type search in the keyword box. Click List Topics. From the Topics list choose Searching the Internet from the Address Bar.**

top tips

RUNNERS-UP

Create custom hardware settings for different locations

As a mobile consultant, I use my laptop loaded with Windows 95 to conduct business. I have to plug into my clients' various networks with their different network software and different hardware settings. Some clients have Netware/IPX, others have LanManager running TCP/IP, and some have docking stations with unique hardware profiles and CD-ROM drives.

Using the Hardware Profiles and Device Manager, I created custom settings for each client location (see figure 1). This allows me to quickly plug-and-play from one location to the next. I also created a stand-alone setting that disables my Network Interface Card. Without the setting, my laptop would spend a few minutes at startup trying to establish a connection through the NIC. I have shared this tip with all the consultants in my office, and it has been a big winner.

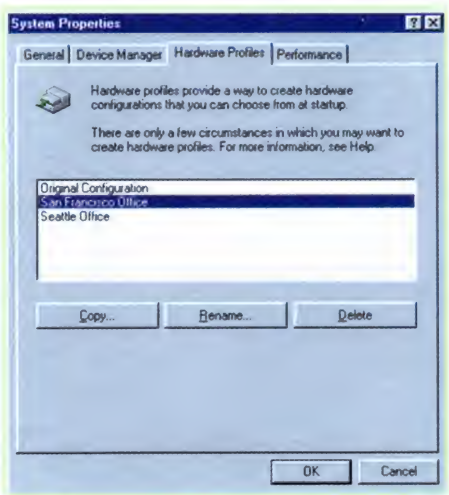


Figure 1

1. On the **Start** menu, point to **Settings** and click **Control Panel**.
2. In Control Panel, double-click the **System** icon.
3. On the **Hardware Profiles** tab, select your default hardware profile from the list and click **Copy**.
4. Type a name for the new profile and click **OK**.
5. Select the new hardware profile and click the **Device Manager** tab.
6. In Device Manager, customize the device settings to match the client location (for example, select the monitor type, or add a stand-alone serial mouse or CD-ROM drive).
7. Repeat as necessary to create a hardware profile for each location where you work.

Your machine will run smoother and quicker; saving you time and money. I used to have to reboot all the time, but my machine has been stable since I customized my settings.

Mark J. Borao

Have the coolest desktop

An easy way to jazz up your computer is to install an animated desktop. Using the Active Desktop™ feature in Internet Explorer 4.0, you can replace your Windows wallpaper with an animated GIF image instead of a regular bitmap picture.

To change your Windows wallpaper:

1. On the **Start** menu, point to **Settings** and click **Control Panel**.
2. In Control Panel, double-click the **Display** icon.
3. On the **Background** tab, click **Browse** and select an animated GIF (see figure 2).
4. Click **OK**.

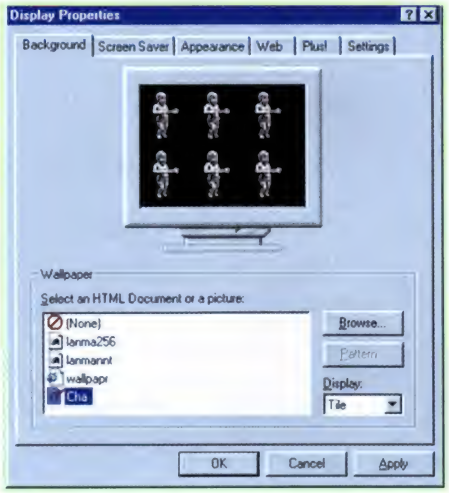


Figure 2

When you hire a Microsoft Office User Specialist, you've got proof that he or she has the skills necessary to drive a wide range of desktop computing tasks to completion-with the kind of efficiency your business needs. Hire Microsoft Office User Specialists today. Or add approved testing to your training to validate your employees' skills at the desktop. It's an easy way to make sure that your company is getting its money's worth.

Get proof. Call (800) 933-4493 to find out more about the Microsoft Office User Specialist program.
Or for more information, visit us at http://www.microsoft.com/office/train_cert/

Circle 105 on the Reader Response Card

©1998 Microsoft Corporation. All rights reserved. Microsoft, the Office logo and *Where do you want to go today?* are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Microsoft
Where do you want to go today?®

More contest tips will be posted this summer at http://www.microsoft.com/magazine/summer/.

You can also use an animated GIF that you find while surfing the Web. In Internet Explorer 4.0 just right-click the animation and click **Set as wallpaper** on the pop-up menu.

Alan T. Peto

Editor's Note: **An animated object on the desktop may result in sluggish machine performance.**

Toggle between language keyboards

If, like me, you have to switch between language keyboards, here is a trick to reduce the number of steps to enable the second keyboard:

1. On the **Start** menu, point to **Settings** and click **Control Panel**.
2. In Control Panel, double-click the **Keyboard** icon.
3. On the **Language** tab, click **Add** and then select the language keyboards you use from the drop-down list.
4. Select the **Enable indicator on taskbar** check box.

An icon in the status area of the Windows taskbar indicates which language keyboard is active. To change keyboards quickly, click the keyboard icon and select a language from the pop-up list.

Pierre-Andrè Chavaillaz

Editor's Note: **These instructions are also in the Word Help menu. Search the index for Languages, and select Switching from the Topics list.**

Reminder: Use AutoFilter

The AutoFilter in Excel is a useful tool that users tend to overlook. AutoFilter displays only rows that match given criteria. To find empty cells in a lengthy spreadsheet, for example, you simply "filter" the fields for an empty value. Only rows with an empty value in the given column will be displayed; the others will be temporarily hidden.

To use AutoFilter:

1. In your spreadsheet select a column or row of columns that you want to sort.
2. From the **Data** menu, click **Filter** and then click **AutoFilter**.
3. AutoFilter generates an arrow at the top of each highlighted column.
4. Clicking on an arrow displays a sorted list of all the data in that column. Choose the value you're interested in from the list; Excel will display only the rows containing that value in the selected column.

To remove the AutoFilter, select the column(s) with the drop-down arrows. From the **Data** menu, click **Filter**, then click **AutoFilter** to toggle it off.

Mike O'Brien

Maximize your Windows view

If you double-click the title bar of a program it automatically maximizes to fill the screen—you don't have to target your mouse pointer to hit the little buttons in the top right corner.

Lupe Flores

Set up desktop icons to display the directory of individual drives

Windows Explorer and File Manager are tools for finding files within directories. But if you have several disk or network drives, it's easier to have a desktop icon for each drive that opens the drive's directory when you click it. I have 13 drives on my machine, and I've found that individual drive icons make searching very convenient.

To set up icons:

1. Right-click on the desktop. Click **New** and then click **Shortcut**.
2. Type the drive letter (c:\, for example), and then click **Next**.
3. Type a name such as "My C Drive," and then click **Finish**.

Jere A. Carson

Retrace your editing steps

In a Word document, you can press SHIFT+F5 five times to jump backward to your last five edit locations. This technique is especially useful when working with long documents. After opening a saved document, you can also press SHIFT+F5 to jump to the point where you made your last edit.

Shari Maduras

Finding files quickly in Windows Explorer

When using Windows Explorer to search for a folder or a file, (say you're looking for the Setup program) click your pointer in the right window and type **S**. The cursor will jump to the first file that starts with S! You can use this method to quickly find files or objects in any directory.

Martin Veider

Déjà Vu? Savvy readers may recognize some of these tips; related techniques can also be found in conventional sources such as product help files, microsoft.com, and past issues of *Microsoft Magazine*. It shows how much information is available if you look. For more tips, go to:

Microsoft Personal Computing tips and tricks
http://www.microsoft.com/magazine/tricks/

Support home page
http://www.microsoft.com/magazine/support/

step-by-step

Create a Web site with FrontPage 98

find it on the Web
HOT LINKS
FrontPage 98 http://www.microsoft.com/magazine/frontpage/
Links to FrontPage resources http://www.cosy.sbg.ac.at/~ohaus/docs/frontpage.html

BY LISA N. JENNOGHE

From Novice to Webmaster with FrontPage 98

Once the province of programmers manipulating code like sorcerer's magic, professional Web site creation is now within reach of the rest of us.

How do I know? I found out the hard way, but it turned out to be easier than I expected.

Here's the story: I'm a member of my local historical association, the Fauberg Historical Society. Fauberg has some beautiful old buildings and a colorful past, so the Historical Society is pretty active. We're always looking for ways to increase membership, though, and to raise money for our projects. At a volunteer meeting, we were brainstorming ways to promote our activities when someone said, "Hey, why don't we put up a Web site." (Was that *my* voice?!) Next thing you know, I had volunteered to create the site without stopping to think, "Wait a minute, just because I've surfed the Net doesn't make me a Webmaster." Too late. It was entered into the minutes that I would create a Web site. Another member said he'd get a copy of FrontPage 98 for me to use. The die was cast.

FrontPage 98 is Microsoft's Web site creation and management tool. Skilled Web developers like it because they can create professional Web sites on the fly without programming. Despite its ease of use, FrontPage 98 Web sites can boast advanced features such as hit counters, dynamic HTML animations, hover buttons, feedback forms, and rotating hyperlinked banner ads with fade-out effects.

Powerful features, certainly, but you don't have to be an expert to have success with FrontPage 98. What follows is a step-by-step procedure for creating a complete Web site, based on my experience as a first-time user of FrontPage 98.

Getting started

Take time to read through the user guide, *Getting Started with Microsoft FrontPage 98*. Take particular note of the first item on page 2 under the "Create Your Web Site with Microsoft FrontPage 98" headline. Labeled "**Before You Install FrontPage 98**," this section has information on publishing your new Web site to an Internet service provider. I also took the **tutorial**, and if you're new to FrontPage, you should too.

1. When you open FrontPage 98, a Getting Started dialog box will appear. Select **Create a New FrontPage Web**. Click **OK**.
2. Next to the number 1, from the list of

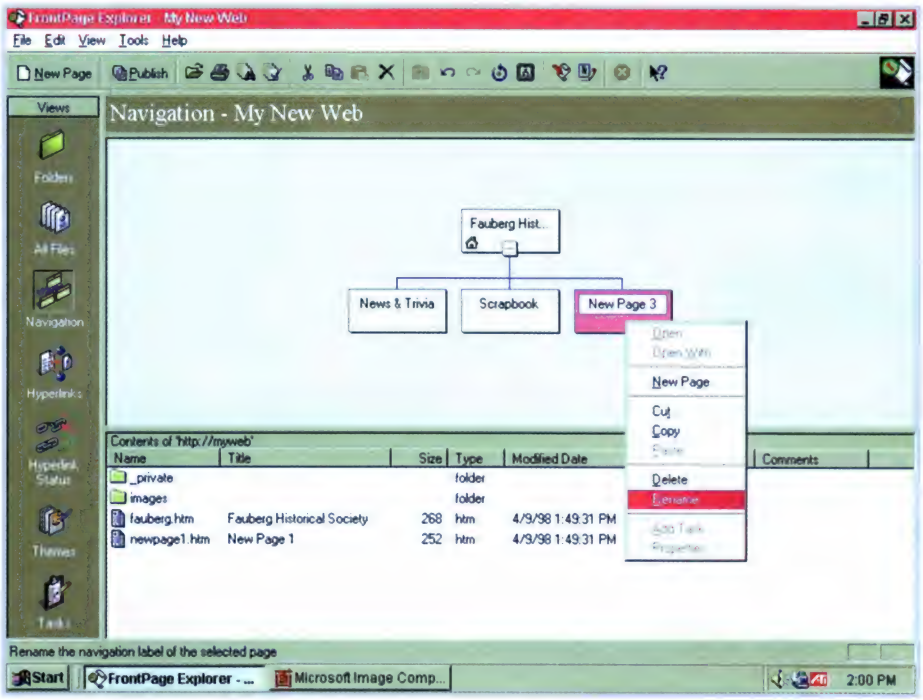


Figure 1: An organizational chart shows your site's navigational structure. Lines track the connection between the home page and subordinate pages.

Microsoft® Training

Over 400 Training Titles

Video & CD Training for MS Office, Windows NT and More.

Microsoft Office 97 Suite:

	VIDEO	CD
• Office 97 Professional Suite (13 Videos or CDs)	$595.95	$679.95

Microsoft Office 97:

	VIDEO	CD
• Word 97 Beg / Int / Adv (each)	$59.95	$69.95
• Excel 97 Beg / Int / Adv (each)	$59.95	$69.95
• Access 97 Beg / Int / Adv (each)	$59.95	$69.95
• PowerPoint 97 Beg / Int / Adv (each)	$59.95	$69.95
• Outlook 97 Beginning	$59.95	$69.95

Microsoft Office 95 Suite:

	VIDEO	CD
• Office 95 Professional Suite (13 Videos or 11 CDs)	$595.95	$599.95

MCSE Training Bundles:

CD-ROMs w/study guides . . . $1999.95
Videos w/study guides $1899.95

MCSE MasterExam:

6 Exam CD-ROM $799.95

NEW

Individual MasterExams are available for these MCSE Exams:

- NT 4.0 Workstation $149.95
- NT 4.0 Server $149.95
- NT 4.0 Server Enterprise . . . $149.95
- Networking Essentials $149.95
- TCP/IP for NT 4.0 . . . . . $149.95
- Internet Info Server 3.0 . . $149.95

Other Training Titles also on CD-ROM

Paid to Pass

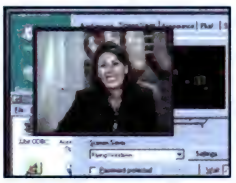
LearnKey understands that there is a price to pay for Microsoft certification. As you prepare to become an MCSE, you'll spend countless hours learning how to administrate Windows NT 4.0 and then cram all night for the exams. Once you pass the exams, who will be the first to reward you?

LearnKey will pay you up to $200 when you use MasterExam Test Prep Software to pass your MCSE exams! MasterExam simulates over 1,000 exam questions and enables you to apply your network administration skills in three testing modes. Only LearnKey gives you an inside advantage on test day and then pays you for passing your MCSE exams. Contact LearnKey and ask how you can get Paid to Pass.

Master Exam™
Test Prep Software

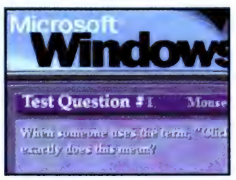
Self-Paced Training

LearnKey provides self-paced training on videotape and CD-ROM for hundreds of software titles. Our videos offer comprehensive instruction that is convenient and easy to follow. Our CD-ROMs combine expert instruction with interactive hands-on exercises.



Training

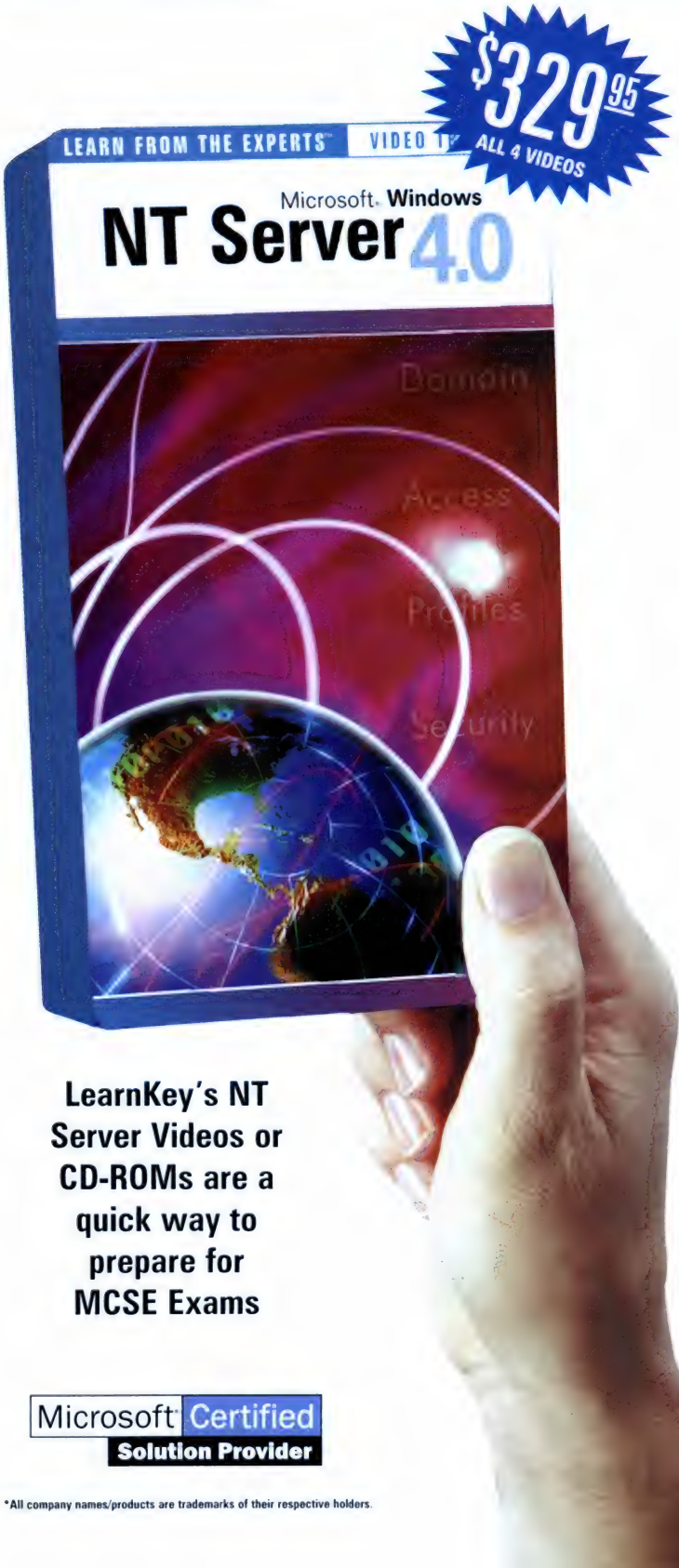
Challenges



Testing

Each LearnKey CD-ROM puts software experts at your fingertips. The training session begins with the instructor demonstrating several levels of application usability through software simulations that play as digital movies. Challenge sessions interactively engage you to perform the tasks learned from the training session. Testing sessions determine your proficiency with the software application being taught from a variety of questions like simulations, true/false, fill-in-the-blank and keyboard shortcut questions.

at Your Fingertips.



LearnKey's NT Server Videos or CD-ROMs are a quick way to prepare for MCSE Exams

Microsoft Certified Solution Provider

*All company names/products are trademarks of their respective holders.

Reed Jacobson
EXCEL 97 EXPERT

Heather Osterloh
MCT MCSE EXPERT

Expert Trainers

LearnKey instruction is led by expert trainers. Reed Jacobson is a top authority on Microsoft Excel. He authored the best selling Microsoft Press book, Excel Visual Basic Step by Step. Reed also worked as a programmer at Hewlett-Packard for ten years before becoming a consultant, specializing in Microsoft Excel, Visual Basic, and other Microsoft Office products.

Heather Osterloh, with more than a decade of experience, is a leader in the networking industry. She provides consulting and training services both nationally and internationally as a Novell Certified CNI, ECNE, Microsoft Certified Trainer, Certified Network Expert and Network General Sniffer Trainer.

No Risk Guarantee

LearnKey's expert instructors ensure that LearnKey CD-ROMs and videos have the best instruction available. We guarantee it with a 30-day money-back offer. LearnKey tools will train you well. The key is having experts at your fingertips. Call (435) 674-9733, fax (435) 674-9734 or visit us at www.learnkey.com for details.

30 DAY MONEY-BACK Guarantee 30 DAY MONEY-BACK

1.800.865.0165

www.learnkey.com

Call for a free demo CD-ROM or video

Source Code #95

LearnKey

Learn From The Experts™

Circle 102 on the Reader Response Card

No ISP? You can arrange to have your site hosted by a member of the FrontPage Web Presence Providers program. Several WPPs offer special limited promotions to new FrontPage 98 customers. For more information, choose **Publish FrontPage Web** from the FrontPage Explorer **File** menu, click **More Webs**, then click the large globe in the Publish FrontPage Web dialog box.

FrontPage Web types, select **Empty Web**.

3. Next to the number 2, type in a title for your Web site and click **OK**. A message box will document your site under construction.
4. FrontPage Explorer should be in Navigation view as you construct your pages. From the **View** menu, select **Navigation**.
5. In the top left corner of the FrontPage Explorer toolbar, click the **New Page** button. When the **Home Page** icon appears, right-click it and choose **Rename**. The text in the Home Page icon can now be changed, so type in a name for your home page. Press **Enter**.
6. With the **Home Page** icon selected, click the **New Page** button. FrontPage will ask if you want it to create navigation bars linking your pages together. Click **Yes**.
7. Now a new page with the title New Page 1 should appear under your home page, connected by a line (see figure 1). Note: If, like me, you forget to select the Home Page icon before you click the New Page button and a new page called Top Page 1 appears *next* to the home page, drag it under the home page to tie it into the site's navigational structure.

Repeat as necessary, naming your pages as you go. I made three subordinate pages: "News and Trivia," "Scrapbook," and "About FHS." There's no need to worry about the final architecture right away—you can add or delete pages later.

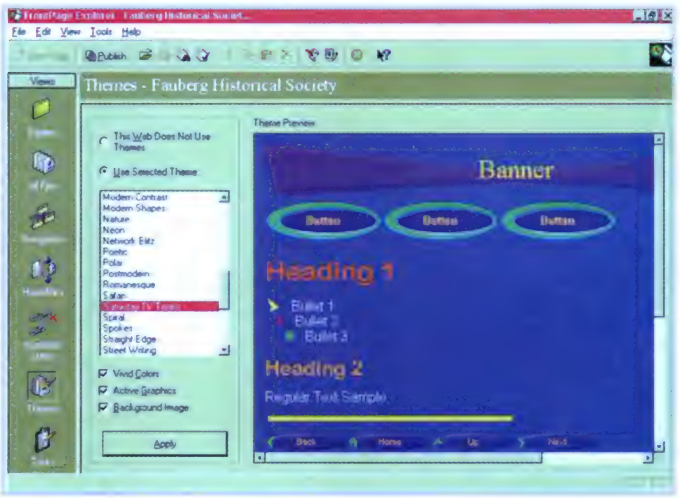


Figure 2: FrontPage 98 themes give your pages professional panache. More than 50 visual themes are easily applied from a drop-down menu. A preview window shows you what you're getting. The "Saturday TV Toons" theme is shown here.

Incorporating a theme

FrontPage 98 has more than 50 built-in themes you can use to create a Web site with true professional polish. (see figure 2). Themes range from business ("World Finance") to whimsical ("Citrus Punch") to adventurous ("Expedition") to hip ("Straight Edge"). They incorporate color-coordinated, unifying visual and navigational elements such as banners, buttons, backgrounds, and fonts. Here's how to apply a theme.

1. On the **Views** bar that runs down the left side of the screen, click **Themes**.
2. In the Themes view, select a theme from the list to view it in the Theme Preview pane. The list is long, so be sure to scroll down. Select the **Active Graphics**, **Background Images**, and/or **Vivid Colors** boxes in different combinations to view a variety of effects with your theme.
3. When you find a theme you like, click **Apply**. When FrontPage asks if you're sure you want to incorporate the theme, click **Yes**.

Back in the FrontPage Editor, review your page with the theme. If you change your mind, you can return to the Themes view to apply a different theme. Otherwise, click **Navigation** on the **Views** bar to return to Navigation view.

When you're finished creating pages and have settled on the "interior decoration," double-click the **Home Page** icon to launch the FrontPage Editor. The editor is a WYSIWYG Web site creation tool. It's time to start making your Web pages!

Image Composer is a full-featured image editor that compares favorably to leading graphics programs. Image Composer allows users to create professional-looking graphics with hundreds of effects, from high-tech warps to "Impressionism," with a click of the mouse. Users can even animate images with the built-in Microsoft GIF Animator.

Creating a Web page in FrontPage 98

The FrontPage Editor opens to a blank page with dotted lines that indicate *shared borders*. Shared borders are page areas that contain links and buttons, which will provide your visitors with consistent navigational guidance throughout the site. FrontPage updates these areas automatically; you will add content to the large, blank area only. Take a moment to familiarize yourself with the toolbar buttons and drop-down menus.

Now comes the fun part: adding text, images, and other content (more on this to follow). Note that you can check your progress in a Preview window, or study the actual HTML code you're generating by clicking the appropriate tab on the bottom left.

Click the **Save** button to save your page. If you've made advance arrangements with your Internet service provider to publish your site to a designated FrontPage server, you can connect to the Internet and click the **Publish** button on the toolbar, then type in the URL provided by your ISP.

The steps outlined in this section create a bare-bones Web site; more specific advice follows on using individual elements and adding effects. I'll describe how I used the tools to create the FHS home page, but I used variations on these techniques to create *all* the pages in the site.

Adding and manipulating text

There are several ways to add text to a blank Web page: type it, paste it, drag it, or import it from an Office 95 or 97 document or any document that Office can import.

Highlight the text you want to modify, then use the toolbar buttons to change the size, style, and position of your text. For example, click the **Increase Text Size** button, the one with the larger *A* on it, to bump up the point size. Click the **Text Color** button (it looks like a painter's palette) to choose a new color. Click the **Increase Indent** button to make your text column narrower. And so on. Here's what I did:

1. Type in "Welcome!" (See figure 3.)

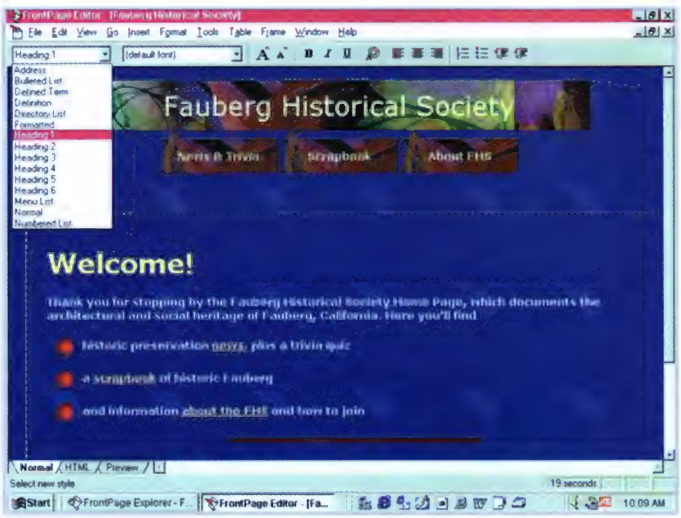


Figure 3: The Change Style menu makes it easy to adjust the size, color, and other features of headlines and text. This page shows the "Downtown" theme.

Select the word and choose **Heading 1** from the **Change Style** drop-down menu. Now my Welcome! headline is bigger and heartier than before.

2. With "Welcome!" highlighted, click the **Text Color** button. When the Color box opens, click a color square and click **OK**.

How to make a bulleted list

After writing a short paragraph telling visitors what to expect while visiting the site, I decided bullet points would be more effective.

1. Press ENTER before the first list item and click the **Bulleted List** button.
2. At the end of each list item, press ENTER to create a bullet on the next line. Note that the bullets harmonize with your theme (see figure 3).
3. To get out of the bulleted list format when the list is finished, press ENTER twice.

Changing the width of a text column

I reviewed what I'd done and decided the text would look better in a column rather than spreading across the screen.

1. Highlight all the text (CTRL-A works for this).
2. Click the **Increase Indent** button a couple of times. If you increase the indent too many times and end up with a spaghetti column, just click the **Decrease Indent** button to go back to previous indents.

Creating hyperlinks

Of course, my home page needs hyperlinks to the pages.

1. I highlight the text I want to link and click the **Create or Edit Hyperlink** button on the toolbar.
2. When the Create Hyperlink dialog box appears, I click on the appropriate page name in the list of my Web site's contents. Now the link appears in the URL location box. I click **OK**.
3. To provide hyperlinks to external Web sites, in the URL field of the **Create Hyperlink** dialog box I type in the URL of the outside Web page. Alternately, you can click the first button to the right of the URL box (the one with the globe and magnifying glass). This launches your browser so you can browse to the page you want to link. Once the correct URL appears in the box, click **OK**.

Adding a horizontal line

I decided to insert a horizontal line to provide a visual break between the main content on the home page and the copyright notice at the bottom.

1. Click once wherever you want the line to appear, and from the **Insert** menu, choose **Horizontal Line**.
2. If the line looks too long, you can make it shorter. Select the line, right-click, and choose **Horizontal Line Properties**. Note: Alternately, pressing ALT + ENTER will evoke the Properties box for just about any element.
3. Under **Width**, with the **Percent of window** check box selected, I click in

FrontPage users and enthusiasts created *The Incredible FrontPage Linksite*, an independent site with links to official Microsoft FrontPage resources and unofficial guides: http://www.cosy.sbg.ac.at/~ohaus/docs/frontpage.html.

A FrontPage 98 FAQ, as well as general news, tips, tools, and a tutorial are available online. You can even order copies of FrontPage 98. Go to http://www.microsoft.com/magazine/frontpage/.

the box and type **60**. Now the line will stretch across 60 percent of the width of the screen no matter what size monitor the viewer uses.

From the Horizontal Line Properties box, you can also modify the thickness, color, and alignment.

Importing an image

Before starting this Web page, I scanned several of the Historical Society's old photographs, then cropped them and made other changes with Microsoft Image Composer 1.5, the image editing program that comes with FrontPage 98. It is also possible to manipulate images directly in FrontPage Editor using the new Image Toolbar. You can use the toolbar to bevel, crop, flip, rotate, or wash out images to add visual appeal to your Web pages. The toolbar is easy to find: Click on an image and it appears at the bottom of the screen. You can also access the Image Toolbar any time from the View menu.

Use the following technique to import image files stored on your computer.

1. From the **Insert** menu, choose **Image**. When the Image box opens, click **Select a File on Your Computer** to browse for the image file.
2. Select the image file you want. Once its name appears in the URL location box, click **OK**. The image should now appear in the Web page. Center the image on the page by selecting it and clicking the **Center** button on the toolbar.
3. To resize the image as it appears on screen, select it, right-click, and choose **Image Properties**. When the Image Properties box appears, click the **Appearance** tab. Under **Size**, select the **Specify Size** check box. Make adjustments to the height and width (try using percentages such as 50 or 30 percent, but make sure you use the same percentage for both height and width). Click **OK**.

Alternatively, you can use the mouse to drag the image borders to a new size.

If you make the display size of your image smaller in Step 3, you'll want to click the **Resample** button on the **Image Toolbar**. Resampling the image creates a new image that is faster to download. The estimated download time for my page went from 24 seconds down to 4 seconds after I resized my images and clicked the Resample button. (The estimated download time using a 28.8-kbps modem for each Web page is visible on the status bar.)

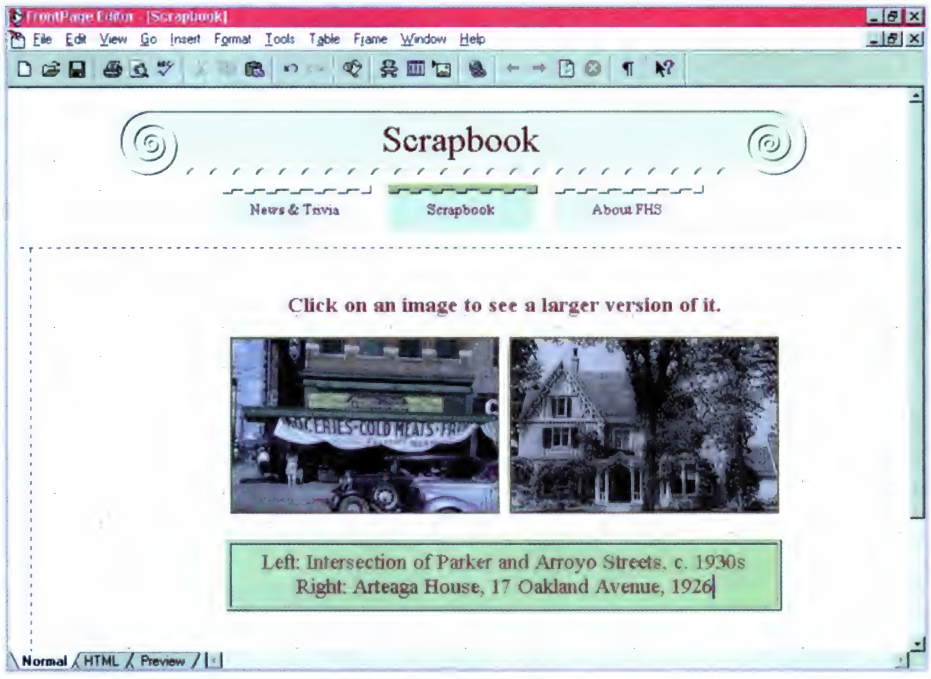

FrontPage Editor - [Scrapbook]
File Edit View Go Insert Format Tools Table Frame Window Help
Scrapbook
News & Trivia
Scrapbook
About FHS
Click on an image to see a larger version of it.
Left: Intersection of Parker and Arroyo Streets, c. 1930s
Right: Arteaga House, 17 Oakland Avenue, 1926
Normal HTML Preview

Figure 4: Photo captions and other page elements are easily placed using the table drawing feature in FrontPage 98. Pencil and eraser tools make creating and altering tables as easy as...using a pencil and eraser. This page view incorporates the "Romanesque" theme.

Inserting or drawing a table

After I placed my photographs, I realized they needed captions. Tables are ordinarily used to separate elements in multiple rows and columns, but I made a table with one column and row, then typed in my text (see figure 4).

1. From the **Table** menu, choose **Draw Table**.
2. Your mouse pointer will take the shape of a pencil and a table drawing toolbar appears. Use the pencil to draw a box the size of your desired table. If you want more than a single column and row, simply draw them with your pencil. Merging cells is as easy as selecting the **Eraser** button on the drawing toolbar and "erasing." To resize any part of the table, simply select and drag the row, column, or border.
3. You'll notice that the table properties such as border color and width match your theme. To change the background color to your table, click the **Style** button. When the Style box opens, click the **Colors** tab and choose or customize a color using the **Background Color** pull-down menu. Alternately, once the table exists on your page, you can right-click on it and make modifications in the Table Properties box.

Ta-dah!

I'm finished—my fellow volunteers will be impressed. Of course, FrontPage 98 has many more features than I used in my first effort, and I'll definitely incorporate them in the site's next generation.

This story is a dramatization. Any resemblance to actual persons, organizations, or places is coincidental.

Library of Congress, Prints & Photographs Division

ATI XPERT@Play 98 8MB - The new breed of speed

how Fast do YoU WaNT to go today?

POWERED BY ATI

- ATI's XPERT 8MB graphics boards are the only way to experience incredible gaming in Windows 98 and Windows 95.
- Get 8MB of power, the best 3D, DVD-quality video and TV-Out starting from just $98[1] (ask your favorite retailer for more details).
- Save even more money with ATI's cool Windows 98 rebates.[2]
- ATI's XPERT graphics boards are available in PCI or full AGP 2X versions.
- Get TV on your PC with ATI-TV.
- Check out www.atitech.com for more details on ATI's Windows 98 products and rebates.

3D PERFORMANCE COMPARISON - ZD 3D WINBENCH 98[3]

ATI XPERT@PLAY 98	609
DIAMOND STEALTH II S220	396
CREATIVE LABS GRAPHICS BLASTER EXXTREME	377

© Copyright 1998. ATI Technologies Inc. ATI, XPERT@Play, XPERT, ATI-TV, and RAGE PRO TURBO are trademarks and/or registered trademarks of ATI Technologies Inc. All other company and/or product names are trademarks and/or registered trademarks of their respective manufacturers. Features, performance, and specifications may vary by operating environment and are subject to change without notice. Products may not be exactly as shown. Suggested retail price. [1]Check store for further details on exact rebate amount. [2]Tested on Pentium II MMX-300MHz/64MB/512 cache/Windows 95-OSR 2.1/Test Mode: 640x480x16bppp@75Hz. Tested using Driver Version: ATI XPERT@Play 98 8MB SGRAM AGP version 5.20 / Diamond Stealth II S220 4 MB SGRAM PCI 4.10.01.0101 / Creative Labs Graphics Blaster Exxtreme 8MB SGRAM PCI 4.03.00.2104-3.0219. All products used in this test are shipping versions available to the public. Tests performed w/o independent verification by ZD and ZD makes no representations or warranties as to results.

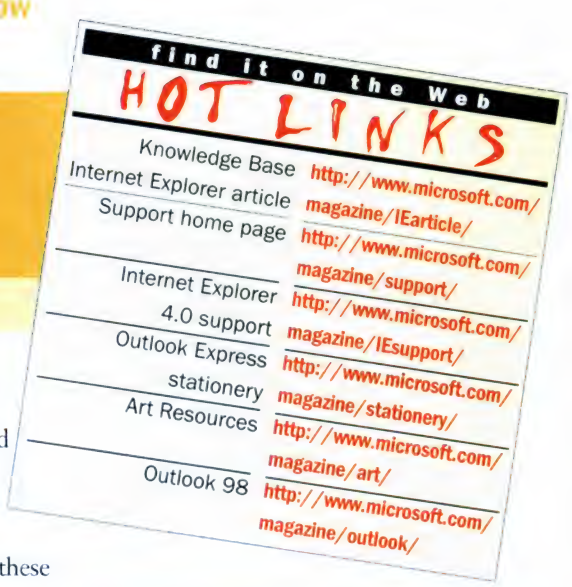
Now You See It.™
www.atitech.com/msm

ATI®

tell me how

Answers to your questions about how to make the most of Microsoft products and your PC

EDITED BY DALE WASHBURN


find it on the Web
HOT LINKS
Knowledge Base Internet Explorer article http://www.microsoft.com/magazine/IEarticle/
Support home page http://www.microsoft.com/magazine/support/
Internet Explorer 4.0 support http://www.microsoft.com/magazine/IEsupport/
Outlook Express stationery http://www.microsoft.com/magazine/stationery/
Art Resources http://www.microsoft.com/magazine/art/
Outlook 98 http://www.microsoft.com/magazine/outlook/

Internet **Explorer**

How can I remove an update message from Internet Explorer 4.0?

Q Internet Explorer 4.0 worked fine on my machine until I installed an upgrade. Since then, every time I start Internet Explorer a message box states that I have an updated version of this program. No matter what I do, I cannot get this message to go away.

John Gregory

A This is a known issue in the Internet Explorer update program. After you updated your program and clicked OK to clear the Software Update Installed dialog box, it failed to update the registry key that says you no longer need to see this message. (This can also occur if you run Internet Explorer in browser-only mode.) To prevent the Software Update Installed dialog box from appearing in the future, you'll need to either update Internet Explorer a second time, or if you are a very advanced user, you can delete the registry key that causes the dialog box to appear.

Instructions for upgrading Internet Explorer are included below. Editing the registry is too complex to cover here, but you can find instructions on resolving this issue in the Microsoft Knowledge Base Article ID: Q179412. To go directly to Article Q179412, browse to http://www.microsoft.com/magazine/IEarticle/. To search the Knowledge Base, browse to http://www.microsoft.com/magazine/support and link to Support Online.

To upgrade to newer components from the Internet Explorer 4.0 Components Download page, follow these steps:

1. On the **Start** menu, point to **Settings**, and then click **Control Panel**.
2. Double-click the **Add/Remove Programs** icon.
3. In the Add/Remove Programs Properties dialog box, select **Microsoft Internet Explorer 4.0**, then click **Add/Remove**.
4. Select **Add a component to Internet Explorer**, click **OK**.
5. Follow the instructions on your screen.

For a list of known issues with Internet Explorer, and assistance go to http://www.microsoft.com/magazine/IEsupport/.

Microsoft **Outlook**

How do I add stationery to Outlook Express?

Q I'd like different options for stationery in Outlook Express. How do I add new ones?

Craig Arthurs

A In case other readers aren't familiar with this feature, stationery templates add a colorful personal touch to e-mail messages created in Outlook Express or Outlook 98 (see figure 1). You can select fun designs for everything from business letters to baby announcements.

In Outlook Express, open a New Message window and click **Format** on the toolbar, then click **Apply Stationery** to see a list of designs. Select one to view it in your message window; if it's not what you want, go back to the list to apply other designs.

In Outlook 98, with the Inbox open, click **Actions** on the toolbar, then select **New Mail Message Using**. The next window offers a More Stationery option. Click **More Stationery** to view a **Select a Stationery** window with a list of stationery and a preview window.

If you don't find what you're looking for in the stationery selection included with the programs, you can easily download more. Additional stationery packs created by Microsoft and Hallmark Connections™ are available for free download from the Greetings Workshop Web site; simply point your browser to http://www.microsoft.com/magazine/stationery/ (connect time charges may apply). Or, on the **Tools** menu in Outlook Express, click **Stationery**, then click **Get More**.

If you still don't find the design you're looking for, you can make your own stationery. Almost any HTML file can be used as stationery; use an HTML editing tool such as Microsoft FrontPage Express to create a file from scratch or to edit one of the built-in stationery files. When

Dress up Office documents and Web pages using the Art Resources available at http://www.microsoft.com/magazine/art/. Besides free backgrounds, icons, arrows, and bullets, the page includes pointers to clip art available on the Internet.

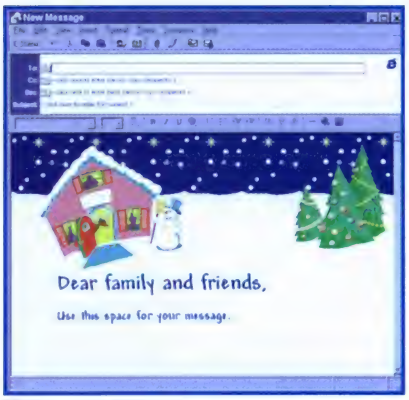


Figure 1: Outlook Express and Outlook 98 have templates for colorful, fun stationery.

you're done, save the file in the folder C:\Program Files\Common Files\Microsoft Shared\Stationery, and it will become available immediately on the stationery list in Outlook Express or Outlook 98.

Microsoft Outlook

How can I get my modem to disconnect automatically?

Q I run Microsoft Outlook with Windows 95. How can I get my modem to disconnect automatically after my e-mail is downloaded?

Jim Scimonetti

A Assuming you're using the newest version, Outlook 98, you can set this as a Mail Delivery option:

A free copy of Microsoft Outlook 98 is available to registered users of Outlook 97, Office 97, or Exchange Server at http:// www.microsoft.com/magazine/outlook/ (connect time charges may apply). See page 8 in this issue for more about Outlook 98.

1. On the **Tools** menu, click **Options**.
2. Click the **Mail Delivery** tab, and under Dial-up Options, select the **Hang up when finished sending, receiving, or updating** check box.

You can also set this option in Outlook Express:

1. On the **Tools** menu, click **Options**.
2. Click the **Dial-up** tab, and select the **Hang up when finished sending, receiving, or updating** check box.

Microsoft Office

How can I fix invalid page faults in my Office programs?

Q We are having trouble with the Save As, Save In, and Browse functions in all our Office programs. We get the following message in Word, Excel, and PowerPoint: "EXCEL caused an invalid page fault in module KERNEL32.DLL at 0137:bff9a5d0." We would appreciate some help. We already reloaded Office 97 and Windows 95 in hope of fixing the problem.

Chip and Anne Carter

A Though there are several possible causes for this situation, invalid page faults are typically caused when an invalid parameter is passed between two programs or between a program and the Windows operating system. In your case, because the same error occurs in every Office program, the bad parameter is likely coming from the operating system. The fact that it involves the Browse and Save As functions could point to an invalid network drive or FTP site in the Look In list. If that's the case, you'll have to remove the invalid drive or FTP site from the list by editing the Windows registry.

Editing the registry is a complicated subject, but complete instructions for resolving this and other invalid page faults are are on the Microsoft Knowledge Base,

The IPF Troubleshooting Wizard on the Microsoft support site helps pinpoint problems and identify solutions. Browse to http://www.microsoft.com/magazine/support/, link to Support Online and use the search term "IPF."

accessed from the Support Online link at http://www.microsoft.com/magazine/support/. On the search page, select the program in which the error occurs, and use the search terms "IPF" and the error number (in this case, "0137:bff9a5d0"). For additional assistance, contact Microsoft Technical Support at (425) 635-7056.

Do You Have a Question?

There are three ways to submit a question to Tell Me How:

- E-mail to msmag@microsoft.com
  Use "Attn: Tell Me How" as the subject line.
- Fax to (425) 93-MS-FAX (936-7329).
- Write to Microsoft Magazine
  Microsoft Corporation
  One Microsoft Way
  Redmond, WA 98052-6399

With your question, please include the full product name, version number, and relevant hardware specifications. Since we receive hundreds of questions for the Tell Me How section, we cannot respond individually. Answers to selected questions will be printed in upcoming issues.

For immediate assistance

Go to the Support home page at http://www.microsoft.com/magazine/support/ and follow the link to Support Online. Support Online is a fast, easy way to find answers about Microsoft products. Continuously updated with the latest technical and support information, Support Online includes a FAQ, a View by Popular Topics feature, and product-specific phone numbers for telephone support.

Microsoft

OUTWARS MEMORIAL (ITEM NO. 328)

JET PACK

c.2389

MILITARY RELIC FROM THE 1ST OUTWARS.
BELONGED TO A BRAVE DREADNAUT SOLDIER WHO WARDED OFF HUGE EXO-SKELETON CREATURES.
FOUND DURING EXCAVATION OF THE GALAXY MINI MALL, 2506 AD.

ROCKETING ACROSS A 10,000-FOOT CHASM

EXPLORING DEPTHS OF PLANET OASIS

BLASTING RUTHLESS SKULL HORDES

SINGLETRAC

OUTWARS™

INTERNET GAMING ZONE

TEEN T AGES 13+ CONTENT RATED BY ESRB

WWW.MICROSOFT.COM/GAMES/OW

© 1998 MICROSOFT CORPORATION. ALL RIGHTS RESERVED. MICROSOFT IS A REGISTERED TRADEMARK OF MICROSOFT CORPORATION. OUTWARS IS A TRADEMARK OF SINGLETRAC STUDIO, A GT INTERACTIVE COMPANY.

tips and tricks

Answers to the questions most frequently asked of Microsoft Technical Support

EDITED BY DALE WASHBURN

Microsoft Word

Format bullets and numbers without modifying body text.

When you want to create numbered or bulleted lists in Microsoft Word, you can format the bullets or numbers without changing the body text. This is useful if you want colored bullets or numbers, or want the numbers to be in a font style different from the body text.

Numbers and bullets adopt the formatting in the paragraph mark at the end of the list, so format the body text as desired, then click the **SHOW ¶** button on the toolbar to reveal the paragraph marks. Select only the paragraph mark at the end of the list and apply the desired text formatting (font size, font color, bold, italic, and so on). The numbers or bullets take on the formatting you apply, but the body text remains unchanged.

Microsoft Office 97

Use hyperlinks without connecting to the Internet.

The hyperlink features of your favorite Microsoft Office programs can be useful even when you're not connected to the Internet. You can use "local" hyperlinks to jump to locations within the active document or to other Office documents on your computer.

In a long Word document, for example, you can link a table of contents entry to the section it references, even if the section is saved in a separate document. You also can add hyperlinks to documents created in other programs. For example, you can link from a cell in an Excel worksheet to a specific location in a Word document.

To insert a hyperlink in an Office document:

1. Save the file in which you want to insert the hyperlink.
2. Select the text you want to activate as a link.
3. On the **Insert** menu, click **Hyperlink.**
4. In the Link to file or URL box, type the full path to the file you will link to or click **Browse** to select the file. (Leave this box blank if the link will point to a location in the same document.)
5. If you want to link to a specific location in the target document (a Bookmark in a Word document, for example, or a cell reference in an Excel spreadsheet), type the name of the location under Named location in file.
6. Click **OK.**

The selected text will be formatted as a hyperlink. To activate the link, simply click the linked text.

Get updates, tips, product assistance, add-ins, wizards, and more to help you get the most out of Office 97 at http://www.microsoft.com/magazine/officeinfo/.

find it on the Web

HOT LINKS

Support home page	http://www.microsoft.com/magazine/support/
Microsoft Office 97 information	http://www.microsoft.com/magazine/officeinfo/
More tips and tricks	http://www.microsoft.com/magazine/tricks/

Microsoft Office 97

Change options to make the Office Assistant more predictable.

You're undoubtedly familiar with the friendly Office Assistant in Office 97, the character who appears out of nowhere to offer help or tips. If you've had enough of its unsolicited advice, you can adjust when and how the Assistant pops up to provide information.

1. To control the level of assistance offered, the next time the Assistant pops up click **Options** on the Office Assistant dialog box, then click the **Options** tab.
2. Clear the **Guess Help Topics** check box to prevent the Office Assistant from appearing at random.
3. If you clear the **Respond to F1 Key** check box, pressing F1 will invoke Windows 95 Help for the active program or dialog box, rather than summoning the Office Assistant.
4. Clear the **Display Alerts** check box to prevent the Office Assistant from offering unsolicited advice before you perform certain actions.

Windows 95

Open a file with a different program.

Windows 95 associates file types with specific programs, so when you double-click a file the associated program is started. Sometimes, however, it's more

convenient to open a file using a different program. Examples include opening an .htm file in FrontPage or a .txt file in Word so you can work on them.

To open a file with a program other than the associated program:

1. In Windows Explorer or My Computer, select the file you want to open.
2. Hold down the SHIFT key while you right-click the file, then click **Open With** on the drop-down menu.
3. Select the program you want to use to open the file, then click **OK**.

Windows 95

Save steps with the Send To command.

The Send To command provides a quick way to move, print, open, e-mail, or compress files. You can also customize the Send To command to include folders, programs, or other actions.

To activate the Send To command, right-click a file or folder in Windows Explorer or My Computer. On the pop-up menu, point to **Send To** to see a list of destinations.

By default, the Send To menu contains floppy disk drives, mail and fax recipients, and your Windows Briefcase. Many programs add destinations to the Send To menu, so the list will depend on your particular configuration. You can also add your own destinations to the Send To menu by adding a shortcut to the Windows\SendTo folder.

To add a destination to the Send To menu:

1. On the **Start** menu, click **Run**.
2. In the **Open** box, type **sendto**, and click **OK**. The Windows\SendTo folder opens in a new window.
3. On the **File** menu, point to **New**, and then click **Shortcut**.
4. Follow the instructions in the Create Shortcut Wizard to create a shortcut to the file, folder, or program that you want to add. ⊗

Support Online never closes. Go to the Support home page at http://www.microsoft.com/magazine/support/ any time of the day or night, on holidays and on weekends, for information and assistance with Microsoft applications. Hosted by Microsoft Technical Support, Support Online is continually updated with the latest technical information.

Features include an FAQ, a drop-down list that allows you to chose the Microsoft product you want to explore in greater depth, and a View by Popular Topics option. Should you require further assistance, product-specific phone numbers are also available through Support Online.

Official Microsoft Licensed Merchandise

Microsoft

Official Microsoft Licensed Merchandise features an exciting selection of apparel and business/home office accessories.

Microsoft Windows98

Dress for Success!

Looking for outerwear to match your new software?

Microsoft Logo Merchandise has released new Windows 98 hats, T-shirts and Polo shirts that let you show your true computing colors.

- all at great sale prices -

During the Windows 98 launch, get great apparel and accessories like Windows 98 mousepads and coffee tumblers.

Microsoft Windows98 LAUNCH SPECIAL

20% TO 30% OFF

NEW!

The Microsoft Logostore is *brand new, easy to shop* and *CREDIT CARD SAFE!*

www.microsoft.com/logostore

at home

CTX® is taking the desktop market by storm with its mega-powered CTX SIP Desktop Series. Powered by the cutting edge Pentium® II processors, the latest Intel440BX AGP sets, up to 64MB SDRAM, and complete 512K cache, CTX dominates 3D design capability with Intel740™ graphics accelerator. Whether you're a corporate programmer or an entry-level user, CTX has a system to meet your demands.

Model: SIP350 $1899

- Pentium® II 350 MHz Processor
- 64MB SDRAM
- 512K PL Burst Cache
- 6.4GB HDD w/UDMA
- Intel740™ 4MB SGRAM AGP
- 3D Stereo Sound/80 Watt Speakers
- 32X CD-ROM Drive
- 56K Flex Voice/FAX Modem
- Microsoft Works, Microsoft Money, Microsoft Expedia Trip Planner 98, Encarta 98, My Personal Tutor, CART
- Windows 98
- Microsoft IntelliMouse/Elite Keyboard
- 17" Monitor

Model: SAK300D $1499

- AMD K6-2/300 Processor w/ 3DNow!
- 64MB SDRAM
- 512K PL Burst Cache
- 6.4GB HDD w/UDMA
- Nvidia 4MB SGRAM AGP
- 3D Stereo Sound/80 Watt Speakers
- 32X CD-ROM Drive
- 56K Flex Voice/FAX Modem
- Microsoft Works, Microsoft Money, Microsoft Expedia Trip Planner 98, Encarta 98, My Personal Tutor, CART
- Windows 98
- Microsoft IntelliMouse/Elite Keyboard
- 17" Monitor

To Order Desktops Toll Free:
1-888-527-3381
visit us at
http://www.ctxcomputer.com

Windows98 Windows NT Workstation

on the go

And if you need notebooks with the latest technology, look no further - CTX EzBooks® delivers. Fully equipped, our EzBooks feature everything users-on-the-go demand. Like powerful 200MHz Pentium® processors, up to 72MB of EDO RAM, an awesome 128-bit graphics accelerator, and a removable, ultra-speed CD-ROM. PC World in fact has called our EzBook "the fastest notebook on the Budget Notebooks chart", even gave it the Best Buy award three times in two months.

EzBook 777MT-FK $1899

- 12.1" TFT Color Display
- 200MHz Pentium® Processor with MMX™ Technology
- 72MB EDO RAM
- 128-bit Graphics
- Synchronous 256K Cache
- 2.0 GB Hard Drive
- ExGlide TouchPad
- 20X CD-ROM Drive
- 56K FAX Modem
- Windows 98/ Windows NT Workstation 4.0

EzBook 770MS-XJ $999

- 12.1" DSTN Color Display
- 200MHz Pentium® Processor with MMX™ Technology
- 16MB EDO RAM
- 128-bit Graphics
- Synchronous 256K Cache
- 1.6 GB Hard Drive
- ExGlide TouchPad
- 16X CD-ROM Drive
- Windows 98/ Windows NT Workstation 4.0

To Order EzBooks Toll Free:
1-888-791-9379
visit us at
http://www.ctxintl.com

CTX

part of your life

Prices and specifications subject to change without notice. The Intel logo, Pentium, and Pentium II are registered trademarks, and MMX is a trademark of Intel Corporation. CTX logo and EzBook are registered trademarks of CTX International, Inc. All other logos and trademarks are the property of their respective owners. ©1998 CTX International, Inc. and CTX Computer.

CIRCLE 110 ON THE READER RESPONSE CARD

HOT PRODUCTS

Microsoft Outwars

Your mission: Lead a team of space Marines against a deadly force of alien insects. Choose from a diverse arsenal of weapons, plan devious strategies for a variety of environments, and take to the not-so-friendly skies with your best asset—the Outwars jetpack.

Estimated Retail Price: $54.95

http://www.microsoft.com/magazine/outwars/

Microsoft Flight Simulator 98

This is not a game. Flight Simulator 98 is the most realistic flight simulation for the PC. Log time in the new Bell 206B JetRanger III helicopter or fly to any of 3,000 airports around the world.

Estimated Retail Price: $59.95

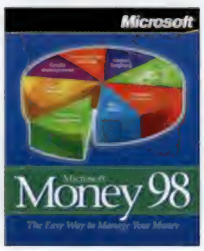
http://www.microsoft.com/magazine/flight/

Microsoft Encarta 98 Deluxe Edition

Microsoft Encarta 98 Deluxe Edition is packed with comprehensive content, cutting-edge interactive technology, and links to vast online resources. This multimedia encyclopedia is the ultimate solution for your family's information needs.

Estimated Retail Price: $79.95

http://www.microsoft.com/magazine/encarta/



Microsoft Money 98

Take charge of your finances. Microsoft Money 98 helps you manage your core financial tasks: Pay bills, create a budget, bank online, and even track investments.

Estimated Retail Price: $29.95

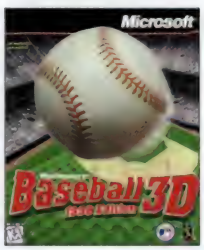
http://www.microsoft.com/magazine/money/

Microsoft Monster Truck Madness 2

Think you're a Monster Truck titan? Think again. Monster Truck Madness 2 delivers new trucks to race and fresh tracks to conquer. Take control of the world's most powerful vehicles—then romp and stomp your way to first place.

Estimated Retail Price: $54.95

http://www.microsoft.com/magazine/monster/



Microsoft Baseball 3D

Step up to the plate! Microsoft Baseball 3D 1998 Edition takes full advantage of 3D acceleration, plus it provides true baseball purists with a sophisticated re-creation of the action, sights, and sounds of major league basball. Everything from the proper flight of a curveball to a double off the wall is delivered in full 3D splendor.

Estimated Retail Price: $54.95

http://www.microsoft.com/magazine/baseball/

MICROSOFT ONLINE CATALOG AT

http://www.microsoft.com/magazine/catalog/. You'll find product overviews, comparisons, and evaluations, as well as add-ons, free software via download (connect time charges may apply), and user advice. Click the **Shop** menu option for a list of retailers, or choose a mail-order company by clicking **Mail Order**. CALL (800) 426-9400 FOR MORE INFORMATION. Retail prices may vary.

Microsoft

IF YOU CAN'T BEAT 'EM, CRUSH 'EM.

Monster Truck Madness® 2 is here, with more ground-pounding, trash-talking fun than the original. Featuring 20 trucks that show the damage you dish out, including four new WCW™ and nWo™ WrestleTrucks like "Hollywood" Hogan. Risky night racing and nasty weather options. Thumping force-feedback support. The Summit Rumble, an outrageous multiplayer game of "king of the hill." And 11 wild new tracks. Get your free demo and start crushing the competition at **www.microsoft.com/games/MTM2**

MONSTER TRUCK MADNESS 2

EVERYONE
E
CONTENT RATED BY ESRB

© 1998 Microsoft Corporation. All rights reserved. Microsoft and Monster Truck Madness are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. 1998 © and ™ WCW, Inc. Other products and company names mentioned herein may be the trademarks of their respective owners.

TRI

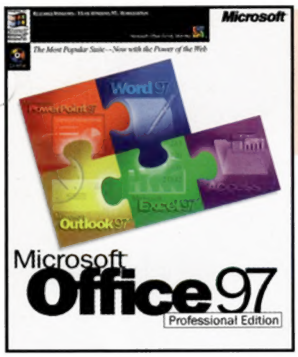
INTERNET GAMING ZONE
play it on zone.com

url index

A guide to the Web sites featured in this issue of *Microsoft Magazine*.

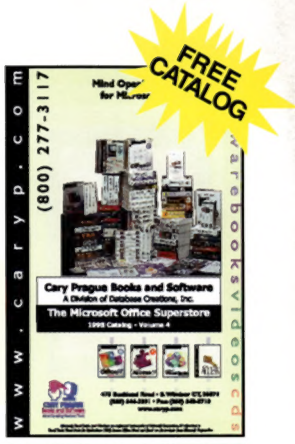
Department	Description	URL	Page
Letter from the editor	Microsoft Personal Computing	http://www.microsoft.com/magazine/summer/	5
Letters to the editor	Outlook 98	http://www.microsoft.com/magazine/outlook/	6
	Microsoft Personal Computing	http://www.microsoft.com/magazine/summer/	6
	Product Catalog	http://www.microsoft.com/magazine/catalog/	6
	Personal Information Center	http://www.microsoft.com/magazine/newsletters/	6
Quick Clicks	Outlook 98	http://www.microsoft.com/magazine/outlook/	8
	IntelliMouse Wheel demo	http://www.microsoft.com/magazine/wheeldemo/	8
	IntelliPoint	http://www.microsoft.com/magazine/intellipoint/	8
	Microsoft Press	http://www.microsoft.com/magazine/mspress/	8
	Office Viewers and Converters	http://www.microsoft.com/magazine/officeviewers/	9
	microsoft.com	http://www.microsoft.com/magazine/microsoft/	9
	Microsoft licensed merchandise	http://www.microsoft.com/magazine/logostore/	12
Review: Outwars, Monster Truck Madness 2	The Adrenaline Vault	http://www.avault.com/	14
	Outwars	http://www.microsoft.com/magazine/outwars/	14
	The Internet Gaming Zone	http://www.microsoft.com/magazine/zone/	15
	Gaming Age	http://www.gaming-age.com/	15
	Monster Truck Madness 2	http://www.microsoft.com/magazine/monster/	15
	SideWinder Force Feedback Pro	http://www.microsoft.com/magazine/feedback/	15
Interview: Microsoft Office	Office	http://www.microsoft.com/magazine/office/	18
Cover story: Windows 98	Microsoft Press	http://www.microsoft.com/magazine/mspress/	24
	Windows 98 Logo Program	http://www.microsoft.com/magazine/logo/	26
	Microsoft Plus! 98	http://www.microsoft.com/magazine/plus/	27
	microsoft.com	http://www.microsoft.com/magazine/microsoft/	28
	Windows 98	http://www.microsoft.com/magazine/windows/	28
	Windows 98 Guide	http://www.microsoft.com/magazine/winfo/	28
Feature: Reader Top Tips	More tips and tricks	http://www.microsoft.com/magazine/tricks/	34
	Support home page	http://www.microsoft.com/magazine/support/	34
	Microsoft Personal Computing	http://www.microsoft.com/magazine/summer/	34
Step by Step	FrontPage 98	http://www.microsoft.com/magazine/frontpage/	39
	Links to FrontPage resources	http://www.cosy.sbg.ac.at/~ohaus/docs/frontpage.html	39
Tell Me How	Knowledge Base Internet Explorer article	http://www.microsoft.com/magazine/IEarticle/	42
	Internet Explorer 4.0 support	http://www.microsoft.com/magazine/IEsupport/	42
	Outlook Express stationery	http://www.microsoft.com/magazine/stationery/	42
	Art Resources	http://www.microsoft.com/magazine/art/	42
	Support home page	http://www.microsoft.com/magazine/support/	43
	Outlook 98	http://www.microsoft.com/magazine/outlook/	43
Tips and Tricks	More tips and tricks	http://www.microsoft.com/magazine/tricks/	45
	Office 97 information	http://www.microsoft.com/magazine/officeinfo/	45
	Support home page	http://www.microsoft.com/magazine/support/	46
Marketplace	Product Catalog	http://www.microsoft.com/magazine/catalog/	48
	Outwars	http://www.microsoft.com/magazine/outwars/	48
	Encarta 98 Deluxe Edition	http://www.microsoft.com/magazine/encarta/	48
	Monster Truck Madness 2	http://www.microsoft.com/magazine/monster/	48
	Flight Simulator 98	http://www.microsoft.com/magazine/flight/	48
	Microsoft Money 98	http://www.microsoft.com/magazine/money/	48
	Microsoft Baseball 3D	http://www.microsoft.com/magazine/baseball/	48

Save keystrokes! **We've posted this index on the Personal Computing site with all the links active.**
Go to http://www.microsoft.com/magazine/index/.



Got This?

Get This!



Mind Opening Business Tools for Microsoft® Office Users

1998 ACCESS OFFICE VB ADVISOR Readers' Choice GOLD
Winner
Best Accounting Product

Microsoft Certified Solution Provider

Call
1-800-277-3117
for your free office add-on catalog

www.caryp.com

Yes! I Can Run My Business™

Everything About This Software is High-End...Except the Price

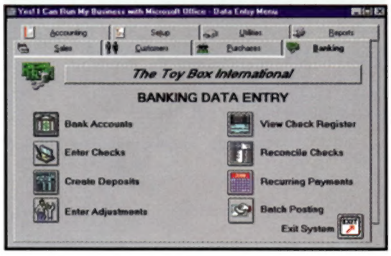
Fully Customizable Accounting for Microsoft® Access

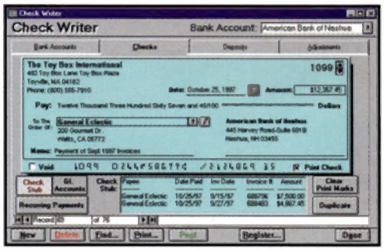
Yes! I Can Run My Business offers the next generation in customizable business accounting software for Microsoft Office users. Written completely in Microsoft Access by a company with over 15 years of experience in creating high-quality, easy to use software products. Winner of the 1998 Readers Choice award for Best Accounting Product from Access Advisor magazine and Best Access Application from Microsoft Network (Check Writer module), this product offers all standard business functions including Sales, Purchases, Inventory, A/R, A/P, Banking, and Accounting in a user-friendly interface.

Specifically designed for users of Microsoft Access, it is the only product on the market that is designed to help you run your business. While it will do all your accounting for you, it has great forms and reports to let you understand and increase your sales while managing and controlling expenses. Over 300 professionally designed reports let you look at your business in ways you never thought possible.

Because it is written in Microsoft Access it can be customized by any Access developer for your specific business needs at a fraction of the cost of other customizable products. You get all the source code for no additional charge, free technical support for 90 days and a 30 day money back guarantee.

Call for your free 12 page color brochure and visit our web site to download a free working demo and discover the power and value of this affordable business accounting package. Our unlimited multi-user system is only $595 including over 1000 pages of printed documentation and technical guides. Call about our royalty free program for VAR's and professional developers including marketing assistance.





Software Add-Ons

- An Exciting Array of Add-Ons for
  - Microsoft Access
  - Microsoft Office
- Developer Tools
- Mapping Tools
- Document Imaging
- Excel/Word Templates
- Contact Manager
- Financial Software
- Image Editor/Picture Libraries

Bestselling Books

- From Novice to Expert on
  - Access
  - Visual Basic
  - Office
  - SQL Server 6
- From the Best Publishers
  - Microsoft Press
  - QUE
  - SAMS
  - IDG Books

Video/CD Training

- Keystone Videos & CDs
  - Access
  - Office
  - Visual Basic
  - Windows NT
  - SQL, and more...
- Microsoft Mastering CDs
  - Office 97
  - Visual Basic 5
  - Website Development

CALL:
1-800-277-3117

CARY PRAGUE Books and Software
Mind Opening Business Tools

Cary Prague Books and Software
(A Division of Database Creations, Inc.)
475 Buckland Road • S. Windsor, CT 06074
E-mail: caryp@caryp.com
www.caryp.com

Fax: (860) 648-0710
Intnl: (860) 644-5891

Circle 108 on the Reader Response Card

The Lowest Priced 233 MHz Notebook In America.*

Featuring:

MMX™ intel inside pentium® PROCESSOR

233 Mhz, 12.1" Display $1199

(Limited time offer)

Intel® Pentium® Processor w/MMX™ Technology 233 MHz

- ***12.1" SVGA Dual Scan Color Display***
- *16 MB EDO DRAM, expandable to 128 MB*
- *1.6 GB removable Hard Drive*
- *Nickel Metal Hydride Battery*
- *Pipeline Burst L2 cache*
- *3.5" Floppy Drive and 20X max variable speed CD-ROM, **both built-in, no need to swap***
- *Integrated dual-button Touchpad*
- *16-bit Stereo Audio*
- *Two Type II or one Type III PCMCIA slot, CardBus and ZoomedVideo supported*
- *PCI graphics accelerator w/2 MB DRAM*
- *Parallel, Serial, PS/2, VGA, 2-way Infrared port, TV out, USB (2)*
- *Kensington lock support plus retractable tie-down attachment*
- *One-year extendible warranty*
- *Microsoft Windows® 95 pre-installed*

233 MHz $1199

From the company that passed the demanding ***PC Computing*** *"Notebook Torture Test"* comes the value-priced WinBook XL 233 at an unbelievable $1199. Now anyone can afford a notebook computer. This is not an older, obsolete model but a brand new machine that includes built-in CD-ROM and floppy drives, a dual-button touchpad and all of the other features you'll need for fast and easy portable computing.

Call today or visit **www.winbook.com** to see our full line of **"Critically Proven"** notebooks.

▶ ***Add a 56k Internal Modem***
Add 16, 32, 64 MB RAM
Add a Carrying Case

Winner of over 150 industry awards

Mon-Fri 8am-9pm EST Sat 9am-4pm EST

U.S. sales only. 30-day unconditional money-back guarantee from date of purchase.

www.winbook.com **1-800-468-7510**

WinBook®

Critically Proven.

* Based on audit of 5/98 issues of: PC Magazine, PC Computing, Computer Shopper, PC Portables, Laptop Buyer's Guide, Windows Magazine

©1998 WinBook Computer Corporation. All rights reserved. WinBook is a registered trademark of Micro Electronics, Inc. The Intel Inside logo and Pentium are registered trademarks and MMX is a trademark of the Intel Corporation. All other trademarks and registered trademarks are property of their respective corporations. All prices and specifications are subject to change without notice or obligation. Prices do not include shipping.

Circle 106 on the Reader Response Card